Virginia Title V Operating Permit

Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Chemical Lime Company of Virginia, Inc.
Facility Name:	Chemical Lime Company, Kimballton Plant
Facility Location:	State Route 635 2093 Big Stony Creek Road Ripplemead, Virginia 24150
Registration Number:	20225
Permit Number:	VA-20225

June 10, 2003
Effective Date

October 31, 2003
Date Modified

June 10, 2008
Expiration Date

Signature Date
Robert G. Burnley
Director, Department of Environmental Quality

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I Facility Information

Permittee
Chemical Lime Company of Virginia, Inc.
2093 Big Stony Creek Road
Ripplemead, Virginia 24150

Responsible Official
Richard L. Werner
Plant Operations Manager

Facility
Kimballton Plant
State Route 635
Kimballton (Giles County), Virginia

Contact Person
Robert H. Shelor
Senior Process / Environmental Engineer
540-626-7163

Registration Number: 20225

AIRS Identification Number: 51-071-0001

Facility Description: Chemical Lime Company of Virginia, Inc., operates a lime and limestone manufacturing, processing, and receiving facility consisting of two adjacent areas, an underground mine, and a quarry near Kimballton, Virginia. Raw limestone for the kilns comes from quarry pits or an underground mine adjacent to the lime plant or from other offsite sources. Raw material handling includes quarry operations, sorting and sizing (crushing and screening), raw material storage, and raw material transfer to the kilns. SIC 3274 includes lime production, coal/coke and ash handling, lime storage, hydrate production, and loadout. Quicklime (calcium oxide-CaO) and dolomitic lime (CaO-MgO) are produced by heating high-calcium limestone ($CaCO_3$), or dolomite ($CaCO_3$-$MgCO_3$) in one of six rotary kilns at the facility. Cooled lime is stored until it is ready for shipment in pebble or pulverized form or hydration; lime passes through atmospheric hydrators where water is added at a measured rate to make raw hydrate. The milled, hydrated lime is then conveyed to storage bins where it is held until it is bagged or loaded into railcars or trucks. Unprocessed limestone and clay materials are also sold by the facility.

II Emission Units

Equipment to be operated consists of:

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 1 Crushing & Screening (Unit Number Series 1100 / K1-5)										
1101	KM-12-ME-1-BLTDR	Fugitive	Fugitive	Mine belt	400 tons/hr	Wet Material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1102	None	Fugitive	Fugitive	Stone pocket	400 tons/hr	Water Spray	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1103	K1-5-FCC-1, -2	Fugitive	Fugitive	Pioneer Reclaim Feeders	200 tons/hr	Tunnel under Storage Pile	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1104	K1-5-BC-1	Fugitive	Fugitive	Belt Conveyor (feeder to belt)	200 tons/hr	Wetted / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1105	K1-5-SN-1	Fugitive	Fugitive	Screen #1	200 tons/hr	Wet material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1106	K1-5-CR-1	Fugitive	Fugitive	Secondary crusher	50 tons/hr	Wet material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1107	K1-5-BE-1	Fugitive	Fugitive	Bucket Elevator	180 tons/hr	Wet material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1108	K1-5-SN-3	Fugitive	Fugitive	Screen #3	180 tons/hr	Wet material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1109	K1-5-SN-4	Fugitive	Fugitive	Screen #4	140 tons/hr	Wet material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1112	K1-5-SN-2	Fugitive	Fugitive	Screen #2	50 tons/hr	Wet material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1113	None	Fugitive	Fugitive	Small stone storage pile (bldg.)	40 tons/hr	Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1114	K1-6-BC-2	Fugitive	Fugitive	Belt Conveyor	80 tons/hr	Wet material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1115	None	Fugitive	Fugitive	Medium stone storage pile (bldg.)	80 tons/hr	Wet Material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1116	K1-5-BC-3	Fugitive	Fugitive	Belt Conveyor	80 tons/hr	Wet material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1117	None	Fugitive	Fugitive	Medium stone storage pile	80 tons/hr	Wet Material	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1118	K1-5-BC-4	Fugitive	Fugitive	Belt Conveyor	80 tons/hr	Wet material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1119	None	Fugitive	Fugitive	Large stone storage pile (bldg.)	80 tons/hr	Wet material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1120	K1-5-BC-5	Fugitive	Fugitive	Belt Conveyor	80 tons/hr	Wet material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1121	None	Fugitive	Fugitive	Large stone storage pile	80 tons/hr	Wet Material	N/A	N/A	PM, PM_{10}	N/A – Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 2 Crushing & Screening (Unit Number Series 2100 / K2-5)										
2101	None	Fugitive	Fugitive	Unload haul truck	320 tons/hr	Wet material	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2102	K2-5-VF-1	Fugitive	Fugitive	Vibrating feeder	320 tons/hr	Wet material	N/A	N/A	PM, PM_{10}	June 12, 2002 (amd. 2/21/03)
2103	K2-5-CR-1	Fugitive	Fugitive	Primary jaw crusher	500 tons/hr	Water Spray	N/A	N/A	PM, PM_{10}	June 12, 2002 (amd. 2/21/03) & 40 CFR 60 Subpart OOO
2104	K2-5-BC-1	Fugitive	Fugitive	Belt Conveyor	750 tons/hr	Wet material	N/A	N/A	PM, PM_{10}	June 12, 2002 (amd. 2/21/03)
2110	K2-5-SN-1	Fugitive	Fugitive	Vibrating Screen	500 tons/hr	Wet material	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2111	None	Fugitive	Fugitive	Screening sales		Wet Material	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2115	K2-5-CR-2	Fugitive	Fugitive	Secondary crusher	340 tons/hr	Wet material	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2116	K2-5-BC-2	Fugitive	Fugitive	Belt Conveyor (recirculating)	250 tons/hr	Wet material	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2117	K2-5-BC-2A	Fugitive	Fugitive	Belt Conveyor (recirculating)	250 tons/hr	Wet material	N/A	N/A	PM, PM_{10}	June 12, 2002 (amd. 2/21/03) & 40 CFR 60 Subpart OOO
2120	K2-5-BC-3	Fugitive	Fugitive	Belt Conveyor (from screen)	250 tons/hr	Wet material	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2121	K2-5-BC-4	Fugitive	Fugitive	Belt Conveyor	200 tons/hr	Wet material	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2122	K2-5-BC-5	Fu-gitive	Fugitive	Belt Conveyor	200 tons/hr	Wet material	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2123	K2-5-BC-6	Fugitive	Fugitive	Belt Conveyor	200 tons/hr	Wet material	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2124	None	Fugitive	Fugitive	Stockpile		Wet Material	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2130	None	Fugitive	Fugitive	Kiln feed storage	200 tons/hr	Wet Material	N/A	N/A	PM, PM_{10}	N/A – Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 1 Charging System (Unit Number Series 1200 / K1-6)										
1201	K1-6-SG-1 to –11	Fugitive	Fugitive	Slide Gate feeders	100 tons/hr	Tunnel under pile	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1202	K1-6-BC-1&2	Fugitive	Fugitive	Belt Conveyor	100 tons/hr	Building	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1203	K1-6-BE-1&2	Fugitive	Fugitive	Bucket Elevator	100 tons/hr	Building	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1205	K1-1-B-1	Fugitive	Fugitive	#1 stone bin	27 tons/hr	Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1206	K1-1-WB-1	Fugitive	Fugitive	Belt conveyor	27 tons/hr	Building	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1207	K1-2-B-1	Fugitive	Fugitive	#2 Stone Bin	27 tons/hr	Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1208	K1-2-WB-2	Fugitive	Fugitive	Belt Conveyor	27 tons/hr	Building	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1220	K1-6-VF-1 to –9, K1-6-VF-01	Fugitive	Fugitive	Vibrating Feeders	100 tons/hr	Tunnel under pile	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1221	K1-6-BC-3	Fugitive	Fugitive	Belt conveyor	100 tons/hr	Building	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1223	K1-6-BE-3	Fugitive	Fugitive	Bucket Elevator	100 tons/hr	Building	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1225	K1-3-B-1	Fugitive	Fugitive	#3 Stone Bin	42 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1226	K1-3-WB-1	Fugitive	Fugitive	Belt Conveyor	42 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A – Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 2 Charging System (Unit Number Series 2200 / K2-6)										
6-BC-4	K1-20-BC-1	Fugitive	Fugitive	Multipurpose Portable Belt conveyor (40 CFR 60 Subparts OOO and Y)	100 tons/hr	Wet Material / Open Conveyor	N/A	N/A	PM, PM_{10}	June 12, 2002 (amd. 2/21/03) & 40 CFR 60 Subparts OOO & Y
2201	K2-6-VF-1, -2, and –3	Fugitive	Fugitive	Reclaim Feeders	100 tons/hr	Under pile	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2202	K2-6-BC-1	Fugitive	Fugitive	Belt Conveyor	100 tons/hr	None	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2203	K2-6-BC-2	Fugitive	Fugitive	Belt Conveyor	100 tons/hr	Water Spray	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2204	K2-6-SN-1	Fugitive	Fugitive	Screen	100 tons/hr	Water Spray	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2205	K2-6-SC-1	Fugitive	Fugitive	Screw Conveyor	10 tons/hr	Wet Material	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2206	None	Fugitive	Fugitive	Surge Pile	10 tons/hr	Wet Material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2209	None	Fugitive	Fugitive	Secondary Storage Pile	100 tons/hr	Water Spray	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2210	K2-6-BC-3	Fugitive	Fugitive	Belt conveyor	100 tons/hr	Wet Material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2211	K2-6-SN-2	Fugitive	Fugitive	Screen	100 tons/hr	Wet Material / Enclosure	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2212	K2-6-SI-1	Fugitive	Fugitive	Stone Silo	100 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 1 Kilns & Initial Product Handling (Unit Number Series 1300, 1400 & 1500 / K1-1, K1-2, and K1-3)										
1301	K1-1-BE-1	Fugitive	Fugitive	Bucket Elevator	27 tons/hr	Building	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1303	K1-1-SN-1	Fugitive	Fugitive	#1 Screen	27 tons/hr	Building	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1304	K1-1-BC-1	Fugitive	Fugitive	Belt Conveyor	27 tons/hr	Building	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1306	K1-1	S1306	K1-4-ST-1A	Rotary Kiln 1 – Allis Chalmers (1947) COAL/COKE	13.5 tph production; 27 tph input	Amerex baghouse	1306BH	K1-4-BH1	PM/PM_{10}	N/A – Existing Source
1306-alt1	K1-1 alt1	S1306	K1-4-ST-1A	Rotary Kiln 1 – Natural Gas (start-up)	13.5 tph production; 27 tph input	Amerex baghouse	1306BH	K1-4-BH1	PM/PM_{10}	N/A – Existing Source
1306-alt2	K1-1 alt2	S1306	K1-4-ST-1A	Rotary Kiln 1 – No. 2 F O (start-up)	13.5 tph production; 27 tph input	Amerex baghouse	1306BH	K1-4-BH1	PM/PM_{10}	N/A – Existing Source
1306-alt3	K1-1 alt 3	S1306	K1-4-ST-1A	Rotary Kiln 1 – Propane (start-up)	13.5 tph production; 27 tph input	Amerex baghouse	1306BH	K1-4-BH1	PM/PM_{10}	N/A – Existing Source
1310	K1-1-C-1	S1310	K1-4-ST-1B	#1 Cooler	13.5 tons/hr	Fuller Baghouse	1310BH	K1-4-CBH-T-1	PM, PM_{10}	N/A – Existing Source
1311	K1-1-H-1	Fugitive	Fugitive	Skip Hopper	25 tons/hr	Building	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1312	K1-2-DL-1	Fugitive	Fugitive	Drag Line Conveyor	10 tons/hr	Building	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1401	K1-2-BE-1	Fugitive	Fugitive	Bucket Elevator	2 tons/hr	Building	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1403	K1-2-BC-1	Fugitive	Fugitive	Belt Conveyor	27 tons/hr	Building	N/A	N/A	PM, PM_{10}	N/A – Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 1 Kilns & Initial Product Handling (Unit Number Series 1300, 1400 & 1500 / K1-1, K1-2, and K1-3) – Continued										
1405	K1-2	S1405	K1-4-ST-2A	Rotary Kiln 2 – Allis Chalmers (1947) COAL/COKE	13.5 tph production; 27 tph input	Env. Elem. Baghouse	1405BH	K1-4-BH2	PM/PM_{10}	N/A – Existing Source
1405-alt1	K1-2 alt1	S1405	K1-4-ST-2A	Rotary Kiln 2 – Natural Gas (start-up)	13.5 tph production; 27 tph input	Env. Elem. Baghouse	1405BH	K1-4-BH2	PM/PM_{10}	N/A – Existing Source
1405-alt2	K1-2 alt2	S1405	K1-4-ST-2A	Rotary Kiln 2 – No. 2 Fuel Oil/Used Oil (start-up)	13.5 tph production; 27 tph input	Env. Elem. Baghouse	1405BH	K1-4-BH2	PM/PM_{10}	N/A – Existing Source
1405-alt3	K1-2 alt3	S1405	K1-4-ST-2A	Rotary Kiln 2 – Propane (start-up only)	13.5 tph production; 27 tph input	Env. Elem. Baghouse	1405BH	K1-4-BH2	PM/PM_{10}	N/A – Existing Source
1407	K1-2-C-1	S1407	K1-4-ST-2B	Kiln #2 Product Cooler	13.5 tons/hr	Fuller Baghouse	1407BH	K1-2-CBH-T-2	PM, PM_{10}	N/A – Existing Source
1408	K1-2-H-1	Fugitive	Fugitive	Skip Hopper	25 tons/hr	Building	N/A	N/A	PM, PM_{10}	N/A – Existing Source
1502	K1-3	S1502	K1-4-ST-3A	Rotary Kiln 3 – Allis Chalmers (1947) COAL/COKE	25 tph production; 50 tph input	Rexnord Conversion Baghouse	1502BH	K1-4-BH3	PM, PM_{10}	N/A – Existing Source
1502-alt1	K1-3 alt1	S1502	K1-4-ST-3A	Rotary Kiln 3 – Natural Gas (start-up)	25 tph production; 50 tph input	Rexnord Conversion Baghouse	1502BH	K1-4-BH3	PM, PM_{10}	N/A – Existing Source
1502-alt2	K1-3 alt 2	S1502	K1-4-ST-3A	Rotary Kiln 3 – No. 2 Fuel Oil (start-up)	25 tph production; 50 tph input	Rexnord Conversion Baghouse	1502BH	K1-4-BH3	PM, PM_{10}	N/A – Existing Source
1502-alt3	K1-3 alt3	S1502	K1-4-ST-3A	Rotary Kiln 3 – Propane (start-up only)	25 tph production; 50 tph input	Rexnord Conversion Baghouse	1502BH	K1-4-BH3	PM, PM_{10}	N/A – Existing Source
1506	K1-3-C-1	S1506	K1-4-ST-3B	Kiln #3 Product Cooler	20.8 tons.hr	Fuller Baghouse	1506BH	K1-3-CBH-T-3	PM/PM_{10}	N/A – Existing Source
1507	K1-3-H-1	Fugitive	Fugitive	Skip Hopper	25 tons/hr	Building	N/A	N/A	PM, PM_{10}	N/A – Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 2 Kilns & Initial Product Handling (Unit Number Series 2300, 2400 & 2500 / K2-1, K2-2, & K2-3)										
2301	K2-1-SCF-1	Fugitive	Fugitive	Scale Conveyor	15 tons/hr	None	N/A	N/A	PM, PM_{10}	N/A – Existing Source
2302	K2-1-BC-1	Fugitive	Fugitive	Belt conveyor	15 tons/hr	None	N/A	N/A	PM/PM_{10}	N/A – Existing Source
2303	K2-1-BEL-1	Fugitive	Fugitive	Bucket elevator	15 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
2304	K2-1-KS-1	S2304 A/B	K2-1-ST-1, -2	Rotary Kiln 1 – F.L. Smidth (1946) COAL/COKE	5.4 tph production; 10.8 tph input	Ducon Wet Scrubber 1	2304WS A/B	K2-1-WS-1 and –2	PM, $PM_{10,}$	N/A – Existing Source
2304-alt1	K2-1-KS-1-alt1	S2304 A/B	K2-1-ST-1, -2	Rotary Kiln 1 – Natural Gas (start-up)	5.4 tph production; 10.8 tph input	Ducon Wet Scrubber 1	2304WS A/B	K2-1-WS-1 and –2	PM, $PM_{10,}$	N/A – Existing Source
2304-alt2	K2-1-KS-1-alt2	S2304 A/B	K2-1-ST-1, -2	Rotary Kiln 1 – No. 2 F. O. (start-up)	5.4 tph production; 10.8 tph input	Ducon Wet Scrubber 1	2304WS A/B	K2-1-WS-1 and -2	PM, $PM_{10,}$	N/A – Existing Source
2304-alt3	K2-1-KS-1-alt3	S2304 A/B	K2-1-ST-1, -2	Rotary Kiln 1 – Propane (start-up)	5.4 tph production; 10.8 tph input	Ducon Wet Scrubber 1	2304WS A/B	K2-1-WS-1 and -2	PM, $PM_{10,}$	N/A – Existing Source
2304-alt4	K2-1-KS-1-alt4	S2304 A/B	K2-1-ST-1, -2	Rotary Kiln 1 – wood pallets (start-up)	5.4 tph production; 10.8 tph input	Ducon Wet Scrubber 1	2304WS A/B	K2-1-WS-1 and -2	PM, $PM_{10,}$	N/A – Existing Source
2305	K2-1-DC-1	S2304 A/B	K2-1-ST-1, -2	Dust Chamber	1 ton/hr	Ducon Wet Scrubber 1	2304WS A/B	K2-1-WS-1 and -2	PM, $PM_{10,}$	N/A – Existing Source
2308	K2-1-C-1	Fugitive	Fugitive	Kiln #1 Product Cooler	5.4 tons/hr	Vented through Kiln	N/A	N/A	PM-PM_{10}	N/A – Existing Source
2309	K2-1-LS-1	S2309	K1-17-ST-1	Cooler Loadout (product to chute)	5.4 tons/hr	Mikro Pul Baghouse	2309BH cooler floor	K1-17-BDC-2	PM/PM_{10}	N/A – Existing Source
2310	K2-1-SKP-1	S2309	K1-17-ST-1	Skip Conveyor	25 tons/hr	Mikro Pul Baghouse	2309BH cooler floor	K1-17-BDC-2	PM/PM_{10}	N/A – Existing Source
2401	K2-2-SCF-2	Fugitive	Fugitive	Scale Conveyor	25 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
2402	K2-2-BC-1	Fugitive	Fugitive	Belt Conveyor	25 tons/hr	Open Belt	N/A	N/A	PM/PM_{10}	N/A – Existing Source
2403	K2-2-BEL-1	Fugitive	Fugitive	Bucket Elevator	25 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source

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Area 2 Kilns & Initial Product Handling (Unit Number Series 2300, 2400 & 2500 / K2-1, K2-2, & K2-3) – continued										
2404	K2-2-KS-1	S2404 A/B	K2-2-ST-1, -2	Rotary Kiln 2 – F.L. Smith (1946) COAL/COKE	14.6 tph production; 29.2 tph input	Ducon Wet Scrubber 2	2404WS A/B	K2-2-WS-1 and –2	PM, $PM_{10,}$	N/A – Existing Source
2404-alt1	K2-1-KS-1-alt1	S2404 A/B	K2-2-ST-1, -2	Rotary Kiln 2 – Natural Gas (start-up)	14.6 tph production; 29.2 tph input	Ducon Wet Scrubber 2	2404WS A/B	K2-2-WS-1 and -2	PM, $PM_{10,}$	N/A – Existing Source
2404-alt2	K2-1-KS-1-alt2	S2404 A/B	K2-2-ST-1, -2	Rotary Kiln 2 – No. 2 F. O. (start-up)	14.6 tph production; 29.2 tph input	Ducon Wet Scrubber 2	2404WS A/B	K2-2-WS-1 and –2	PM, $PM_{10,}$	N/A – Existing Source
2404-alt3	K2-1-KS-1-alt3	S2404 A/B	K2-2-ST-1, -2	Rotary Kiln 2 – Propane (start-up)	14.6 tph production; 29.2 tph input	Ducon Wet Scrubber 2	2404WS A/B	K2-2-WS-1 and –2	PM, $PM_{10,}$	N/A – Existing Source
2404-alt4	K2-1-KS-1-alt4	S2404 A/B	K2-2-ST-1, -2	Rotary Kiln 2 – wood pallets (start-up)	14.6 tph production; 29.2 tph input	Ducon Wet Scrubber 2	2404WS A/B	K2-2-WS-1 and –2	PM, $PM_{10,}$	N/A – Existing Source
2405	K2-2-DC-1	S2404 A/B	K2-2-ST-1, -2	Dust Chamber	1 ton/hr	Ducon Wet Scrubber 2	2404WS A/B	K2-2-WS-1 and –2	PM, $PM_{10,}$	N/A-Existing Source
2407	K2-2-C-1	Fugitive	Fugitive	Kiln 2 Product Cooler	14.6 tons/hr	Vented through Kiln	N/A	N/A	PM/PM_{10}	N/A-Existing Source
2408	K2-2-LS-1	S2309	K1-17-ST-1	Cooler Loadout (hopper to chute)	14.6 tons/hr	Mikro Pul Baghouse	2309BH cooler floor	K1-17-BDC-2	$PM-PM_{10}$	N/A-Existing Source
2409	K2-2-VF-1	S2309	K1-17-ST-1	Vibrating Feeder	25 tons/hr	Mikro Pul Baghouse	2309BH cooler floor	K1-17-BDC-2	$PM-PM_{10}$	N/A-Existing Source
2410	K2-2-BC-2	S2309	K1-17-ST-1	Belt Conveyor	25 tons/hr	Mikro Pul Baghouse	2309BH cooler floor	K1-17-BDC-2	$PM-PM_{10}$	N/A-Existing Source
2411	K2-2-SKP-1	S2309	K1-17-ST-1	Skip Conveyor	25 tons/hr	Mikro Pul Baghouse	2309BH cooler floor	K1-17-BDC-2	$PM-PM_{10}$	N/A-Existing Source
2501	K2-3-VF-1	Fugitive	Fugitive	Vibrating Feeder	25 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A-Existing Source
2502	K2-3-SCF-2	Fugitive	Fugitive	Scale Conveyor	25 tons/hr	None	N/A	N/A	PM/PM_{10}	N/A-Existing Source
2503	K2-3-BC-1, -2, and –3	Fugitive	Fugitive	Belt Conveyors	25 tons/hr	None	N/A	N/A	PM/PM_{10}	N/A-Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 2 Kilns & Initial Product Handling (Unit Number Series 2300, 2400 & 2500 / K2-1, K2-2, & K2-3) – continued										
2504	K2-3-KS-1	S2504A/B	K2-3-ST-1, -2	Rotary Kiln 3 – F.L. Smidth (1967) COAL/COKE	15.6 tph production; 31.2 tph input	Ducon Wet Scrubber 3	2504WS A/B	K2-3-WS-1 and –2	PM, $PM_{10,}$	N/A-Existing Source
2504-alt1	K2-3-KS-1-alt1	S2504A/B	K2-3-ST-1, -2	Rotary Kiln 3 – Natural Gas (start-up)	15.6 tph production; 31.2 tph input	Ducon Wet Scrubber 3	2504WS A/B	K2-3-WS-1 and –2	PM, $PM_{10,}$	N/A-Existing Source
2504-alt2	K2-3-KS-1-alt2	S2504A/B	K2-3-ST-1, -2	Rotary Kiln 3 – No. 2 F. O. (start-up)	15.6 tph production; 31.2 tph input	Ducon Wet Scrubber 3	2504WS A/B	K2-3-WS-1 and –2	PM, $PM_{10,}$	N/A-Existing Source
2504-alt3	K2-3-KS-1-alt3	S2504A/B	K2-3-ST-1, -2	Rotary Kiln 3 – Propane (start-up)	15.6 tph production; 31.2 tph input	Ducon Wet Scrubber 3	2504WS A/B	K2-3-WS-1 and –2	PM, $PM_{10,}$	N/A-Existing Source
2504-alt4	K2-3-KS-1-alt4	S2504A/B	K2-3-ST-1, -2	Rotary Kiln 3 – wood pallets (start-up)	15.6 tph production; 31.2 tph input	Ducon Wet Scrubber 3	2504WS A/B	K2-3-WS-1 and –2	PM, $PM_{10,}$	N/A-Existing Source
2505	K2-3-DC-1	S2504A/B	K2-3-ST-1, -2	Dust Chamber	1 ton/hr	Ducon Wet Scrubber 3	2504WS A/B	K2-3-WS-1 and –2	PM, $PM_{10,}$	N/A-Existing Source
2509	K2-3-C-1	Fugitive	Fugitive	Kiln 3 Product Cooler	15.6 tons/hr	Vented through Kiln	N/A	N/A	PM/PM_{10}	N/A-Existing Source
2510	K2-3-LS-1	S2309	K1-17-ST-1	Cooler Loadout	15.6 tons/hr	Mikro Pul Baghouse	2309BH cooler floor	K1-17-BDC-2	PM/PM_{10}	N/A-Existing Source
2511	K2-3-VF-4, -5, -6, and –7	S2309	K1-17-ST-1	Vibrating Feeders	25 tons/hr	Mikro Pul Baghouse	2309BH cooler floor	K1-17-BDC-2	PM/PM_{10}	N/A-Existing Source
2512	K2-3-BC-4	S2309	K1-17-ST-1	Belt Conveyor	25 tons/hr	Mikro Pul Baghouse	2309BH cooler floor	K1-17-BDC-2	PM/PM_{10}	N/A-Existing Source
2513	K2-3-YB-1	S2309	K1-17-ST-1	Drag Conveyors	25 tons/hr	Mikro Pul Baghouse	2309BH cooler floor	K1-17-BDC-2	PM/PM_{10}	N/A-Existing Source
2514	K2-3-BC-5 and –6	S2309	K1-17-ST-1	Belt Conveyors	25 tons/hr	Mikro Pul Baghouse	2309BH cooler floor	K1-17-BDC-2	PM/PM_{10}	N/A-Existing Source
2515	K2-3-WB-1	S2309	K1-17-ST-1	Waste Bin Loadout	5 tons/hr	Mikro Pul Baghouse	2309BH cooler floor	K1-17-BDC-2	PM/PM_{10}	N/A-Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 1 Kiln Ash, other waste product handling (Unit Number Series 1300, 1400 & 1500 / K1-4)										
1307	K1-4-BH1-SC-1 to –4	Fugitive	Fugitive	Screw conveyor	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1308	K1-4-BH1-BE-1	Fugitive	Fugitive	Bucket Elevator	20 tons/hr	Baghouse	1514BH	K1-4-BH350	PM/PM_{10}	N/A - Existing Source
1406	K1-4-BH2-SC-1 to –4	Fugitive	Fugitive	Screw conveyor	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1503	K1-4-BH3-SC-1 to -6	Fugitive	Fugitive	Screw conveyor	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1504	K1-4-BE-2&3-1	Fugitive	Fugitive	Bucket Elevator	40 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1505	K1-4-B-2&3	Fugitive	Fugitive	#2 and #3 dust bin	40 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1509	K1-4-BH3-SC-2&3-1	Fugitive	Fugitive	Screw conveyor	40 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1510	K1-4-BE-2&3-1	S1514	K1-4-ST-1	Bucket Elevator	40 tons/hr	Baghouse	1514BH	K1-4-BH350	PM/PM_{10}	N/A - Existing Source
1513	K1-4-B350	S1514	K1-4-ST-1	350 ton kiln dust bin	50 tons/hr	Baghouse	1514BH	K1-4-BH350	PM/PM_{10}	June 12, 2002 (amd. 3/21/03)
1514	K1-4-LS-1	S1514	K1-4-ST-1	Kiln Dust Load out	50 tons/hr	CP Env. Baghouse	1514BH	K1-4-BH350	PM/PM_{10}	June 12, 2002 (amd. 3/21/03)
1520	K1-4-SC-2&3-2, -4, -5	Fugitive	Fugitive	Screw conveyor	40 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1521	K1-4-BM-1	Fugitive	Fugitive	KVS Cone Pelletizer	40 tons/hr	Water Spray	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1522	K1-4-BC-1&2&3	Fugitive	Fugitive	Belt conveyor	40 tons/hr	Wet Material	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1523	None	Fugitive	Fugitive	Mixing pit	40 tons/hr	Wet Material	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1524	None	Fugitive	Fugitive	Waste pile (pelletized dust)	60 tons/hr	Water Spray	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1313	K1-4-BH1-B2	Fugitive	Fugitive	Bucket elevator	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1315	K1-4-BH1-B2	Fugitive	Fugitive	Old #1 dust bin	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1530	K1-4-HP-1	Fugitive	Fugitive	Hopper	10 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1531	K1-2-DL-1	Fugitive	Fugitive	Drag line conveyor	10 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1532	None	Fugitive	Fugitive	Scale Pile	10 tons/hr	Water	N/A	N/A	PM/PM_{10}	N/A - Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 1 Lime Storage (Unit Number Series 1600 / K1-8 and K1-9)										
1601	K1-8-B-1	Fugitive	Fugitive	Surge Bin	25 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1602	K1-8-B-2	Fugitive	Fugitive	Surge Bin	25 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1603	K1-9-B-1	Fugitive	Fugitive	Surge Bin	25 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1604	K1-8-B-3	Fugitive	Fugitive	Scale Bin	5 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
				OLD SIDE STORAGE SILOS						
1611	K1-8-SI-1	Fugitive	Fugitive	Silo #1	20 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
	K1-8-SC-1	Fugitive	Fugitive	12” screwline	50 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1613	K1-8-BC-1	Fugitive	Fugitive	Belt Conveyor	50 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
	K1-8-BC-5	Fugitive	Fugitive	18” belt Conveyor w/belt tripper	50 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1615	K1-8-BC-3	Fugitive	Fugitive	Belt Conveyor (transfer from “New Side”)	21 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1616	K1-8-BC-4	Fugitive	Fugitive	Belt Conveyor (transfer from “New Side”)	21 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1618	K1-8-SN-1	S2000	K1-8-ST-1	Screen	50 tons/hr	Seneca BH	Old Side BH (S2000)	K1-8-BH-1	PM/PM_{10}	Feb. 3, 2003 NSR Mod.
1619	K1-8-SI-2	Fugitive	Fugitive	Silo #2	20 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1620	K1-8-SI-3	Fugitive	Fugitive	Silo #3	15 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1621	K1-8-BC-2	Fugitive	Fugitive	Belt Conveyor to screen #K1-8-SN-2	15 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1622	K1-8-CR-1	S2000	K1-8-ST-1	36” x 36” double roll crusher	50 tons/hr	Seneca BH	Old Side BH (S2000)	K1-8-BH-1	PM/PM_{10}	Feb. 3, 2003 NSR Mod.
1623	K1-8-SI-4	Fugitive	Fugitive	Silo #4	20 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1624	K1-8-SI-5	Fugitive	Fugitive	Silo #5	20 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1625	K1-8-SC-3	Fugitive	Fugitive	Screw Conveyor	5 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	N/A - Existing Source
	K1-8-SC-7	Fugitive	Fugitive	16” screwline	50 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	Feb. 3, 2003 NSR Mod.
	K1-8-SC-8	Fugitive	Fugitive	16” screwline	50 tons/hr	Fugitive	N/A	N/A	PM/PM_{10}	Feb. 3, 2003 NSR Mod.

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 1 Lime Storage (Unit Number Series 1600 / K1-8 and K1-9) – continued										
NEW SIDE STORAGE SILOS										
1640	K1-9-BC-5	Fugitive	Fugitive	Belt Conveyor (transfer from "Old Side")	27 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1643	K1-9-BC-1	Fugitive	Fugitive	Belt Conveyor	60 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1644	K1-9-SN-1	Fugitive	Fugitive	Screen	60 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1645	K1-9-BC-2	Fugitive	Fugitive	Belt conveyor	15 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1646	K1-9-SI-6	Fugitive	Fugitive	Silo #6	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1647	K1-9-BC-3	Fugitive	Fugitive	Belt conveyor	15 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1648	K1-9-SI-7	Fugitive	Fugitive	Silo #7	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1649	K1-9-SI-8	Fugitive	Fugitive	Silo #8	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1650	K1-8-SC-5	Fugitive	Fugitive	Screw conveyor	5 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1651	K1-9-BC-4	Fugitive	Fugitive	Belt Conveyor	30 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
1652	K1-9-CR-1	Fugitive	Fugitive	Secondary crusher	30 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 2 Lime Storage (Unit Number Series 2600 / K2-7)										
2601	K2-7-BEL-1	S2309	K1-17-ST-1	Bucket Elevator (Kilns #1 and #2)	25 tons/hr	Baghouse	2309BH Cooler Floor	K1-17-BDC-2	PM/PM_{10}	N/A - Existing Source
2602	K2-7-BEL-2	S2309	K1-17-ST-1	Bucket Elevator (Kilns #1 and #2)	25 tons/hr	Baghouse	2309BH Cooler Floor	K1-17-BDC-2	PM/PM_{10}	N/A - Existing Source
2603	K2-7-BEL-3	S2309	K1-17-ST-1	Bucket Elevator (Kiln #3)	25 tons/hr	Baghouse	2309BH Cooler Floor	K1-17-BDC-2	PM/PM_{10}	N/A - Existing Source
2604	K2-7-BEL-4	S2309	K1-17-ST-1	Bucket Elevator (Kiln #3)	25 tons/hr	Baghouse	2309BH Cooler Floor	K1-17-BDC-2	PM/PM_{10}	N/A - Existing Source
2605	K2-7-YB-1	Fugitive	Fugitive	Drag conveyor	25 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2606	K2-7-YB-1	Fugitive	Fugitive	Surge silo (3 kilns)	25 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2607	K2-7-VF-1	Fugitive	Fugitive	Vibrating feeder	20 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2608	K2-7-BC-5	Fugitive	Fugitive	Belt conveyor	20 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2609	K2-7-SI-3	Fugitive	Fugitive	Storage silo	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2610	K2-7-VF-3, -4, and –5	Fugitive	Fugitive	Vibrating feeders	20 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2611	K2-7-BC-6, -7, and –8	Fugitive	Fugitive	Belt conveyors	20 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2612	K2-7-BC-9	Fugitive	Fugitive	Belt conveyor	20 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2613	K2-7-BEL-6	Fugitive	Fugitive	Bucket Elevator	20 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2614	K2-7-BC-3	Fugitive	Fugitive	Belt conveyor	10 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2618	K2-7-SN-8	Fugitive	Fugitive	Screen (covered)	20 tph	Buidling	N/A	N/A	PM/PM_{10}	N/A – Existing Source
2625	K2-7-CR-1	Fugitive	Fugitive	Tertiary crusher	20 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2626	K2-7-SN-1	Fugitive	Fugitive	Screen (covered)	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2627	K2-7-SN-3	Fugitive	Fugitive	Screen (covered)	5 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2628	K2-7-SC-1	Fugitive	Fugitive	Screw Conveyor (to Bin 1)	5 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2631	K2-7-BBI-1	Fugitive	Fugitive	Bulk Bin 1	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2632	K2-7-BBI-2	Fugitive	Fugitive	Bulk Bin 2	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2633	K2-7-BBI-3	Fugitive	Fugitive	Bulk Bin 3	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 2 Lime Storage (Unit Number Series 2600 / K2-7)										
2634	K2-7-BBI-4	Fugitive	Fugitive	Bulk Bin 4	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2635	K2-7-BBI-5	Fugitive	Fugitive	Bulk Bin 5	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A - Existing Source
2636	K2-7-BBI-6	Fugitive	Fugitive	Bulk Bin 6	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
2637	K2-7-SC-2	Fugitive	Fugitive	Screw conveyor (return to #2612)	5 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
Area 1 Lime Loadout (Unit Number Series 1700 / K1-10 and K1-11)										
1701	K1-10-BC-1	Fugitive	Fugitive	Old side silo reclaim belt	210 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
1702	K1-10-BE-1	S1704	K1-10-ST-1	Bucket elevator	210 tons/hr	CP Env. Dust collector	1704BH	K1-10-BH-1	PM/PM_{10}	Existing Source
1704	K1-10-SN-1	S1704	K1-10-ST-1	2 deck screen	200 tons/hr	CP Env. Dust collector	1704BH	K1-10-BH-1	PM/PM_{10}	Existing Source
1706	K1-10-B-1	Fugitive	Fugitive	Oversize hopper	1 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
1707	K1-10-LS-3	Fugitive	Fugitive	Load to truck	10 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
1708	K1-10-BC-1	S1704	K1-10-ST-1	Belt conveyor	200 tons/hr	CP Env. Dust collector	1704BH	K1-10-BH-1	PM/PM_{10}	Existing Source
1710	K1-10-LS-1, -2	S1710	K1-10-ST-2	Truck or railcar loading	200 tons/hr	Staclean Baghouse	1710BH	K1-10-BH-2	PM/PM_{10}	Existing Source
1720	K1-12-BC-1	Fugitive	Fugitive	New side reclaim belt	210 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
1721	K1-11-BE-1	S2010	K1-9-ST-1	Bucket elevator	210 tons/hr	Building	2010BH	K1-11-BH-1	PM/PM_{10}	Existing Source
1722	K1-10-BC-1	Fugitive	Fugitive	Belt conveyor	210 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
1724	K1-11-SN-1	Fugitive	Fugitive	1 deck screen	200 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
1725	K1-11-BC-1	S2010	K1-9-ST-1	Belt conveyor	200 tons/hr	Building	2010BH	K1-11-BH-1	PM/PM_{10}	Existing Source
1727	K1-11-LS-1	S2010	K1-9-ST-1	Truck or railcar loading	200 tons/hr	Building	2010BH	K1-11-BH-1	PM/PM_{10}	Existing Source
1730	K1-9-SI-1	S1730	K1-9-ST-2	Fines bin	20 tons/hr	Staclean Bin Vent	1730BH	K1-9-BH-2	PM/PM_{10}	Existing Source
1731	K-10-SC-1	Fugitive	Fugitive	Screw line to old side reclaim belt	200 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1750	K1-9-SC-3	Fugitive	Fugitive	Screwline Bypass	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1751	K1-9-BM-1	Fugitive	Fugitive	Briquette machine	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1754	K1-9-SC-4	Fugitive	Fugitive	Quicklime reclaim screw	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1507	K1-3-H-1	Fugitive	Fugitive	#3 skip hopper	25 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 2 Lime Loadout (Unit Number Series 2700 / K2-7)										
2701	K2-7-VF-6	Fugitive	Fugitive	Vibrating Feeder #1	20 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2702	K2-7-VF-7	Fugitive	Fugitive	Vibrating Feeder #2	20 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2703	K2-7-VF-8	Fugitive	Fugitive	Vibrating Feeder #3	20 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2704	K2-7-VF-9	Fugitive	Fugitive	Vibrating Feeder #4	20 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2705	K2-7-VF-10	Fugitive	Fugitive	Vibrating Feeder #5	20 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2706	K2-7-VF-11	Fugitive	Fugitive	Vibrating Feeder #6	20 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2707	K2-7-BC-4	Fugitive	Fugitive	Belt conveyor	100 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2708	K2-7-BEL-5	Fugitive	Fugitive	Bucket Elevator	100 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2709	K2-7-SN-2	Fugitive	Fugitive	Screen (covered)	75 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
2710	K2-7-LBI-1	Fugitive	Fugitive	Loadout bin	75 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
2711	K2-7-SC-2	Fugitive	Fugitive	Screw conveyor (to #2631)	75 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
2712	K2-7-LS-1	Fugitive	Fugitive	Railcar loadout spout	75 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
Area 1 Hydrate Production and Loadout (Unit Number Series 1800 / K1-12)										
1801	K1-12-BC-1	Fugitive	Fugitive	Belt conveyor from lime storage/load	50 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1802	K1-12-B-1	Fugitive	Fugitive	Hydrate feed bin	40 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1803	K1-12-SC-21	Fugitive	Fugitive	Cal-dol fines screw conveyor	10 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1804	K1-12-BE-1	Fugitive	Fugitive	Bucket elevator	40 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1805	K1-12-B-1	Fugitive	Fugitive	Feed bin	10 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1806A	K1-12-WB-1, K1-12-SC-3	Fugitive	Fugitive	Single paddle mixing screw and weigh feeder	15 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1807	K1-12-HY-1	S1807	K1-12-ST-1	Schaeffer hydrator	12 tons/hr	Amerex Venturi Scrubber	1807V	K1-12-BE-1	PM/PM_{10}	Existing Source
1808	K1-12-SC-4	Fugitive	Fugitive	Screw conveyor	13 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1809	K1-12-BE-2	Fugitive	Fugitive	Bucket elevator	13 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 1 Hydrate Production and Loadout (Unit Number Series 1800 / K1-12) continued										
1810	K1-12-SC-5	Fugitive	Fugitive	Screw conveyor	13 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1820	K1-12-B-3	Fugitive	Fugitive	Hammermill bin #1	N/A	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1821	K1-12-HM-1	S1821	K1-12-ST-1	Hammermill #1	6 tons/hr	9 MWC-10 Ray Jet FF	1821BH	K1-12-BH-1	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
1822	K1-12-B-4	Fugitive	Fugitive	Hammermill Bin #2	N/A	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1823	K1-12-B-5	Fugitive	Fugitive	Hammermill Bin #3	N/A	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1824	K1-12-HM-2, -3	S1824	K1-12-ST-2,-3	Hammermills #2, #3	6 tons/hr	W. W. Sly Dynaclone BH	1824BH	K1-12-BH-2&3	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
1825	K1-12-B-6	Fugitive	Fugitive	Hammermill Bin #4	N/A	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1826	K1-12-HM-4	S1826	K1-12-ST-4	Hammermill #4	6 tons/hr	9 MWC-10 Ray Jet FF	1826BH	K1-12-BH-4	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
1829	K1-13-BE-2	Fugitive	Fugitive	East Elevator		Enclosure	N/A	N/A	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
1831	K1-12-B-9	S1831	K1-12-ST-5	West Side Product Bin	15 tons/hr	W. W. Sly Dynaclone	1831D E/W	K1-12-BH-5	PM/PM_{10}	Existing Source
1832	K1-12-LS-2	Fugitive	Fugitive	Secondary Hydrate Loadout	100 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1833	K1-12-B-10	S1831	K1-12-ST-5	East Side product bin	15 tons/hr	W. W. Sly Dynaclone	1831D E/W	K1-12-BH-5	PM/PM_{10}	Existing Source
1834	K1-12-BE-4	Fugitive	Fugitive	Elevator	100 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1835	K1-12-LS-1	S1835	K1-12-ST-7	Primary Loadout	100 tons/hr	Staclean Baghouse	1835 BH	K1-12-BH-8	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
1836	K1-12-LS-2	S1835	K1-12-ST-7	Secondary Loadout	120 tons/hr	Staclean Baghouse	1835 BH	K1-12-BH-8	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
1840	K1-12-SC-19 to –20, -22 to –24	Fugitive	Fugitive	Screw Conveyors	1 ton/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1841	K1-12-BE-3	Fugitive	Fugitive	Elevator	1 ton/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1842	K1-12-B-7	Fugitive	Fugitive	Tailings Bin	1 ton/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1843	K1-12-LS-4	S1980	K1-12-ST-8	Truck Loadout	100 tons/hr	Staclean Baghouse	1980BH	K1-12-BH-7	PM/PM_{10}	Existing Source
1844	K1-12-B-8	S1980	K1-12-ST-8	Cal-dol Fines Bin	10 tons/hr	Staclean Baghouse	1980BH	K1-12-BH-7	PM/PM_{10}	Existing Source
1845	K1-12-LS-5	S1980	K1-12-ST-8	Truck Loadout	100 tons/hr	Staclean Baghouse	1980BH	K1-12-BH-7	PM/PM_{10}	Existing Source
1847	K1-13-BE-1	Fugitive	Fugitive	West Elevator		Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
1848	K1-13-BAG-1	S1831	K1-12-ST-5	Bagger	15 tons/hr	W.W.Sly Dynaclone Bin Vent	1831BH E/W	K1-12-BH-5	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 2 Hydrate Production and Loadout (Unit Number Series 2800 / K1-18)										
2801	K1-18-SC-1 and –2	Fugitive	Fugitive	Screw conveyors (from bins #1 & #2)	10 tons/hr	No Transfer Point (NTP)	N/A	N/A	PM/PM_{10}	N/A – Existing Source
2802	K1-18-BEL-1	Fugitive	Fugitive	Bucket elevator	10 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A – Existing Source
2803	K1-18-SBI-1	Fugitive	Fugitive	Surge bin	10 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A – Existing Source
2804	K1-18-SCF-2	Fugitive	Fugitive	Scale feeder	4 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A – Existing Source
2805	K1-18-PM-1	S2820	K1-18-ST-4	Pug mill	4 tons/hr	Ducon Wet Scrubber	2806WS	K1-18-BDC-4	PM/PM_{10}	N/A – Existing Source
2806	K1-18-H-2	S2820	K1-18-ST-4	Kritzer Hydrator	4 tons/hr	Ducon Wet Scrubber	2806WS	K1-18-BDC-4	PM/PM_{10}	N/A – Existing Source
2810	K1-18-SC-3	Fugitive	Fugitive	Screw conveyor	5 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
2811	K1-18-BEL-2	S2811	K1-18-ST-3	Bucket elevator	10 tons/hr	Enviro Clean Baghouse	Elevator BH	K1-18-BDC-2	PM/PM_{10}	N/A – Existing Source
2812	K1-18-SBI-2	S2840	K1-18-ST-3	Surge bin	10 tons/hr	Dustex Baghouse	2840BH	K1-18-BDC-3	PM/PM_{10}	N/A – Existing Source
2813	K1-18-SC-4	Fugitive	Fugitive	Screw conveyor (to loading bin)	10 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
2814	K1-18-RF-2	S2840	K1-18-ST-3	Rotary feeder	10 tons/hr	Dustex Baghouse	2840BH	K1-18-BDC-3	PM/PM_{10}	N/A – Existing Source
2815	K1-18-HM-1	S2811	K1-18-ST-2	Hammermill	5 tons/hr	Enviro Clean Baghouse	Elevator BH	K1-18-BDC-2	PM/PM_{10}	N/A – Existing Source
2817	K1-18-SWZ-1 and K1-18-SCY-1	Fugitive	Fugitive	Separator whizzer and cyclone	5 tons/hr	No Transfer Point (NTP)	N/A	N/A	PM/PM_{10}	N/A – Existing Source
2820	K1-18-SC-5	S2830	K1-18-ST-1	Screw conveyor	50 tons/hr	Fuller-Kavako BH	2830BH	K1-18-BVI	PM/PM_{10}	N/A – Existing Source
2821	K1-18-LBI-1	S2830	K1-18-ST-1	Loading bin #1	50 tons/hr	Fuller-Kavako BH	2830BH	K1-18-BVI	PM/PM_{10}	N/A – Existing Source
2822	K1-18-LBI-2	S2830	K1-18-ST-1	Loading bin #2	50 tons/hr	Fuller-Kavako BH	2830BH	K1-18-BVI	PM/PM_{10}	N/A – Existing Source
2823	K1-18-SC-7 and –8	Fugitive	Fugitive	Screw conveyor	100 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
2824	K1-18-LS-1	S2840	K1-18-ST-3	Loading spout	100 tons/hr	Dustex Baghouse	2840BH	K1-18-BDC-3	PM/PM_{10}	N/A – Existing Source
2825	K1-18-TB-1	S2840	K1-18-ST-3	Tube baggers	3 tons/hr	Dustex Baghouse	2840BH	K1-18-BDC-3	PM/PM_{10}	N/A – Existing Source
2830	K1-18-WBI-1	S2840	K1-18-ST-3	Waste bin	1 ton/hr	Dustex Baghouse	2840BH	K1-18-BDC-3	PM/PM_{10}	N/A – Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 2 Hydrate Production and Loadout (Unit Number Series 2800 / K1-18) continued										
2850	K1-18-H-1	S2850	K1-18-ST-5	KVS Hydrator	15 tons/hr	BHA Heated Pulse Jet BH	2850BH	K1-18-BDC-2	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
2850A/ 2850B	K1-18-PSC-1 and -2	Fugitive	Fugitive	2 Mixing screws (24" x 12')	15 tons/hr	Building / Enclosure	N/A	N/A	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
2851	K1-18-BEL-3	Fugitive	Fugitive	Bucket elevator	15 tons/hr	Building / Enclosure	N/A	N/A	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
2851A	K1-18-SC-12	Fugitive	Fugitive	Screw Conveyor from 2851 to 2852	15 tons/hr	Building/Enclosure	N/A	N/A	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
2852	K1-18-SEP-1	Fugitive	Fugitive	Air Separator	15 tons/hr	Building / Enclosure	N/A	N/A	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
2853	K1-18-SC-10	Fugitive	Fugitive	Conveyor from air separator	5 tons/hr	Building / Enclosure	N/A	N/A	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
2854	K1-18-BLW-2	Fugitive	Fugitive	Pneumatic Conveyor	12 tons/hr	Building / Enclosure	N/A	N/A	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
2861	K1-18-SB1-3	Fugitive	Fugitive	Surge Bin	15 tons/hr	Building / Enclosure	N/A	N/A	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
2862	K1-18-SCF-2	Fugitive	Fugitive	Scale Feeder	15 tons/hr	Building / Enclosure	N/A	N/A	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
Area 1 Coal/Coke Handling (Unit Number Series 1900 through 1949 / K1-7)										
1901	K1-7-H-1	Fugitive	Fugitive	Coal / CokeReclaim Hopper	50 tons/hr	Under tracks	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1902	K1-7-BC-1	Fugitive	Fugitive	Belt Conveyor	50 tons/hr	Covered conveyor	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1903	K1-7-BC-4	Fugitive	Fugitive	Belt Conveyor	50 tons/hr	Covered conveyor	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1904	None	Fugitive	Fugitive	Coal / Coke Stock Pile	50 tons/hr	None	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1910	K1-7-CR-1	Fugitive	Fugitive	Secondary Crusher	50 tons/hr	Covered	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1912	None	Fugitive	Fugitive	Metal Waste Pile	5 tons/hr	None	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1915	K1-7-BC-2	Fugitive	Fugitive	Belt Conveyor (crossover)	50 tons/hr	Covered Conveyor	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1916	K1-7-BC-3	Fugitive	Fugitive	Belt Conveyor (long)	50 tons/hr	Covered Conveyor	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1918	K1-7-B-2	Fugitive	Fugitive	#2 Coal / Coke Bin	15 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1919	K1-7-BC-6	Fugitive	Fugitive	Belt Conveyor	10 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A – Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 1 Coal/Coke Handling (Unit Number Series 1900 through 1949 / K1-7) - Continued										
1919A	K1-7-WB-1	Fugitive	Fugitive	Weigh Belt Feeder	8 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	June 12, 2002 (amd. 2/21/03) & 40 CFR 60 Subpart Y
1920	K1-7-B-1	Fugitive	Fugitive	#1 Coal Bin	15 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1921	K1-7-BC-7	Fugitive	Fugitive	Belt Conveyor	10 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1921A	K1-7-WB-2	Fugitive	Fugitive	Weigh Belt Feeder	8 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	June 12, 2002 (amd. 2/21/03) & 40 CFR 60 Subpart Y
1922	K1-7-BM-1	Fugitive	Fugitive	KVS Ball Mill	40 tons/hr	Discharge to Kiln	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1922A	K1-7-CM-1	Fugitive	Fugitive	Raymond Bowl Mill #1 – coal / coke prep	4.5 tons/hr	Discharge to Kiln	N/A	N/A	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
1922B	K1-7-CM-2	Fugitive	Fugitive	Raymond Bowl Mill #2 – coal / coke prep	4.5 tons/hr	Discharge to Kiln	N/A	N/A	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)
1922C	K1-7-DB-1	Area 1 Kiln Exhaust	Area 1 Kiln Exhaust	Duct Burner #1	2 MMBtu/hr	Discharge to Kiln	N/A	N/A	PM/PM_{10}, SO2, NOx, VOC	June 12, 2002 (amd. 2/21/03)
1922D	K1-7-DB-2	Area 1 Kiln Exhaust	Area 1 Kiln Exhaust	Duct Burner #2	2 MMBtu/hr	Discharge to Kiln	N/A	N/A	PM/PM_{10}, SO2, NOx, VOC	June 12, 2002 (amd. 2/21/03)
1930	K1-7-BC-5	Fugitive	Fugitive	Belt Conveyor	50 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1931	K1-3-BC-1	Fugitive	Fugitive	#3 Coal / Coke Bin	20 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1932	K1-3-SH-2	Fugitive	Fugitive	Surge Hopper	7 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1932A	K1-3-WB-2	Fugitive	Fugitive	Kiln #3 Coal / Coke Weight Belt Feeder	10 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	June 12, 2002 (amd. 2/21/03) & 40 CFR 60 Subpart Y
1933	K1-3-RV-1	Fugitive	Fugitive	Rotary Feeder	20 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1934	K1-3-CM-1K1-3-RV-1	Fugitive	Fugitive	#3 Coal / Coke Mill (to Kiln #3)	25 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A – Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 1 Pulverized Quicklime Production (Unit Number Series 1950 through 1999 / K1-14)										
1950	K1-14-LS-2	Fugitive	Fugitive	Truck unloading – pneumatic	50 tons/hr	Partially enclosed	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1951	K1-14-LS-3	Fugitive	Fugitive	Truck unloading	50 tons/hr	Partially enclosed	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1952	K1-14-BE-1	Fugitive	Fugitive	Bucket elevator	50 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1953	K1-14-SC-2	Fugitive	Fugitive	Screwline	50 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1954	K1-14-SB-1	Fugitive	Fugitive	Surge bin #1	50 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1955	K1-14-RM-1	S1955	K1-14-ST-1	Mill #1	4 tons/hr	W. W. Sly Dynaclone Dust collector	1955D	K1-14-BH-1	PM/PM_{10}	N/A – Existing Source
1956	K1-14-CY-1	S1955	K1-14-ST-1	Cyclone #1	4 tons/hr	Vents to Mill	1955D	K1-14-BH-1	PM/PM_{10}	N/A – Existing Source
1958	K1-14-SC-3	Fugitive	Fugitive	Screwline back to mill	50 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1959	K1-14-SB-2	Fugitive	Fugitive	Surge bin #2	50 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1960	K1-14-RM-2	S1960	K1-14-ST-2	Mill #2	4 tons/hr	W. W. Sly Dynaclone Dust collector	1960D	K1-14-BH-2	PM/PM_{10}	N/A – Existing Source
1961	K1-14-CY-2	S1960	K1-14-ST-2	Cyclone #2	4 tons/hr	Vents to Mill	1960D	K1-14-BH-2	PM/PM_{10}	N/A – Existing Source
1963	K1-14-SC-4	Fugitive	Fugitive	Screwline back to mill	50 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1964	K1-14-SB-3	Fugitive	Fugitive	Surge bin #3	50 tons/hr	Building	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1965	K1-14-RM-3	S1965	K1-14-ST-3	Mill #3	4 tons/hr	W. W. Sly Dynaclone Dust collector	1965D	K1-14-BH-3	PM/PM_{10}	N/A – Existing Source
1966	K1-14-CY-3	S1965	K1-14-ST-3	Cyclone #3	4 tons/hr	Vents to Mill	1965D	K1-14-BH-3	PM/PM_{10}	N/A – Existing Source
1968	K1-14-SC-5	Fugitive	Fugitive	Screwline back to mill	50 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1969	K1-14-SC-1	Fugitive	Fugitive	Screwline	50 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source
1970	K1-14-B-4	S1970	K1-14-ST-4	Storage bin	50 tons/hr	W. W. Sly Bin Vent	1970BH	K1-14-BH-4	PM/PM_{10}	N/A – Existing Source
1971	K1-14-LS-1	Fugitive	Fugitive	Truck loading	50 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	N/A – Existing Source

Emission Unit ID	CLC Equipment ID	Stack ID	CLC Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	CLC ID	Pollutant Controlled	Applicable Permit Date
Area 2 Coal/Coke Handling (Unit Number Series 2900 / K2-9)										
2901	None	Fugitive	Fugitive	Stockpile – Truck Dump	100 tons/hr	Under Tracks	N/A	N/A	PM/PM_{10}	Existing Source
2902	None	Fugitive	Fugitive	Loading Hopper	60 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
2903	K2-9-BC-1	Fugitive	Fugitive	Belt conveyor	60 tons/hr	Covered conveyor	N/A	N/A	PM/PM_{10}	Existing Source
2904	K2-9-CT-1	Fugitive	Fugitive	Storage Bin	50 tons/hr	None	N/A	N/A	PM/PM_{10}	Existing Source
2905	K2-9-SCF-1 and –2	Fugitive	Fugitive	Screw Conveyors	25 tons/hr	Covered	N/A	N/A	PM/PM_{10}	Existing Source
2920	K2-9-SCF-1	Fugitive	Fugitive	Scale Feeder	4 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2921	K2-9-SC-2	Fugitive	Fugitive	Screw Conveyor	4 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
2922	K2-9-RF-1	Fugitive	Fugitive	Rotary Feeder	4 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2923	K2-9-BM-1	Fugitive	Fugitive	Bowl Mill	4 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2930	K2-9-SCF-2	Fugitive	Fugitive	Scale Feeder	5 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2931	K2-9-SC-3	Fugitive	Fugitive	Screw Conveyor	5 tons/hr	Enclosure	N/A	N/A	PM/PM_{10}	Existing Source
2932	K2-9-RF-2	Fugitive	Fugitive	Rotary Feeder	5 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2933	K2-9-BM-2	Fugitive	Fugitive	Bowl Mill	5 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2934	K2-9-SC-1	Fugitive	Fugitive	Screw Conveyors	5.2 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2935	K2-9-SBI-1	Fugitive	Fugitive	Surge Bin	5.2 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2936	K2-9-SCF-3	Fugitive	Fugitive	Scale	5.2 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2937	K2-9-RF-3	Fugitive	Fugitive	Rotary Feeder	5.2 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
2938	K2-9-BM-3	Fugitive	Fugitive	Bowl Mill	5.2 tons/hr	Building	N/A	N/A	PM/PM_{10}	Existing Source
Area-Wide Units										
RUL	K1-17-BDC-1	S2020	K1-17-ST-1	Portable Railcar unloading system	200 tons/hr	DCE BH / enclosed conveyor & loadout spout	RULBH	K1-17-BDC-1	PM/PM_{10}	June 12, 2002 (amd. 2/21/03)

*All data in this table is provided for informational purposes only, and is not an applicable requirement. In most cases, the Size/Rated capacity values are "estimated," and are not based on detailed engineering calculations.

III Process Equipment Requirements – Existing Sources (as indicated in Section II - Emission Unit tables)

- Area 1 Crushing & Screening - Unit Number Series 1100 (K1-5)
- Area 2 Crushing & Screening - Unit Number Series 2100 (K2-5)
- Area 1 Charging System - Unit Number Series 1200 (K1-6)
- Area 2 Charging System - Unit Number Series 2200 (K2-6)
- Area 1 Kilns & Initial Product Handling - Unit Number Series 1300, 1400 & 1500 (K1-1, K1-2, & K1-3)
- Area 2 Kilns & Initial Product Handling - Unit Number Series 2300, 2400 & 2500 (K2-1, K2-2, & K2-3)
- Area 1 Kiln Ash, other waste product handling - Unit Number Series 1300, 1400 & 1500 (K1-1, K1-2, and K1-3)
- Area 1 Lime Storage - Unit Number Series 1600 (K1-8 and K1-9)
- Area 2 Lime Storage - Unit Number Series 2600 (K2-7)
- Area 1 Lime Loadout - Unit Number Series 1700 (K1-10 and K1-11)
- Area 2 Lime Loadout - Unit Number Series 2700 (K2-7)
- Area 1 Hydrate Production and Loadout - Unit Number Series 1800 (K1-12)
- Area 2 Hydrate Production and Loadout - Unit Number Series 2800 (K1-18)
- Area 1 Coal/Coke Handling - Unit Number Series 1900 through 1949 (K1-7)
- Area 1 Pulverized Quicklime Production - Unit Number Series 1950 through 1999 (K1-14)
- Area 2 Coal/Coke Handling - Unit Number Series 2900 (K2-9)

A. Limitations

1. **Emissions Control -** Particulate matter emissions from the Area 1 kilns - Units #1306 (K1-1), #1405 (K1-2), #1502 (K1-3) shall be controlled by a baghouse. The emission control device(s) shall be provided with adequate access for inspection.
(9 VAC 5-20-170 [Control Plan dated June 19, 1974])

2. **Emissions Control -** Particulate matter emissions from the Area 2 kilns – Units #2304 (K2-1-KS-1), #2404 (K2-2-KS-1), #2504 (K2-3-KS-1) shall be controlled by wet fan scrubbers. The emission control device(s) shall be provided with adequate access for inspection.
(9 VAC 5-20-170 [Control Plan dated June 20, 1974])

3. **Standard for fugitive dust/emissions** - No owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

   a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.

   b. Application of asphalt, water or suitable chemicals on dirt roads, materials stockpiles and other surfaces which may create airborne dust; the paving of roadways and maintaining them in a clean condition.
   c. Installation and use of hoods, fans and fabric filters to enclose and vent the handling of dusty materials. Adequate containment methods shall be employed during sandblasting or other similar operations.

d. Open equipment for conveying or transporting materials likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion.

e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

4. **Visible Emission Limitations - Existing Equipment - Stone Processing, Crushing and Screening - Unit Number Series 1100 (K1-5) & 2100 (K2-5), Coal/Coke Handling Equipment - Unit Number Series 1900 through 1950 (K1-7) & 2900 (K2-9), Kilns (Unit Numbers #1306, (K1-1-C-1), #1405 (K1-2-C-1), #1502 (K1-3-C-1), #2304, (K2-1-KS-1), #2404 (K2-2-KS-1), #2504 (K2-3-KS-1), and all other existing Units (conveyor transfer points, bins, stockpiles etc.) -** Visible emissions shall not exceed 20 percent (20%) opacity (six-minute average) except during one six-minute period in any one hour in which visible emissions shall not exceed sixty percent (60%) opacity. Failure to meet the visible emissions requirement because of the presence of water vapor shall not be a violation. This standard is applicable to all existing units and activities at the Chemical Lime Company of Virginia, Inc. – Kimballton, Virginia Plant.
(9 VAC 5-40-1850, 9 VAC 5-40-80 and 9 VAC 5-80-110)

5. **Standard for Particulate Matter – Existing Source General Process Operations –** No owner or other person shall cause or permit to be discharged into the atmosphere from any process unit any particulate emissions in excess of the limits in Table 4-4A of 9 VAC 5-40-260A of the Virginia Regulations. Interpolation of the data in Table 4-4A of 9 VAC 5-40-260 for process weight rates up to 60,000 lb/hr shall be accomplished by use of the following equation: $E = 4.10\ P^{0.67}$, where E = emission rate in lb/hr, and P = process weight rate in tons/hr. Interpolation and extrapolation of the data for process weight rates in excess of 60,000 lb/hr shall be accomplished by use of the following equation: $E = 55.0P^{0.11} - 40$, where E = emission rate in lb/hr, and P = process weight rate in tons/hr. This standard is applicable to existing point sources as listed in Section II of this permit (limits as listed in Condition III.A.8), with the exception of Existing Stone Crushing and Screening Sources (Unit Number Series 1100 and 2100) (K1-5 and K2-5), which are addressed in Condition III.A.6.
(9 VAC 5-40-260, 9 VAC 5-80-110)

6. **Standard for Particulate Matter- Existing Stone Crushing and Screening - Sources (Unit Number Series 1100 and 2100) (K1-5 and K2-5) –** No owner or other person shall cause or permit any material to be produced, handled, stockpiled or transported without taking measures to reduce to a minimum any particulate matter from becoming airborne. Where it is practical to measure the emission, the emission shall not exceed the limits established by Table 4-14 of 9 VAC 5-40-1840 A of the Virginia Regulations (limits as listed in Condition #III.A.8 below). All such airborne particulate matter eminating from the yards, sidings or roads of such operations shall be considered fugitive dust and shall be controlled as stipulated in 9 VAC 5-40-1860. All crushers shall be fitted with liquid sprays or other appropriate systems which effectively limit the escape of airborne dust. Vibrating and shaker screens handling dry materials shall be enclosed or fitted with a collector system which will prevent the release of more than 0.05 grains per standard cubic foot. All feeders, elevators, conveyors, transfer points, discharge points and loading points shall be equipped with collectors, sprays or other means when necessary to minimize the escape of dust.
(9 VAC 5-40-1840 and 9 VAC 5-80-110)

7. **Standard for Sulfur Dioxide – Existing Source Combustion Installations: Area 1 Kilns: Unit Numbers 1306, 1405, and 1506 (K1-1, K1-2 and K1-3), and Area 2 Kilns: Unit Numbers 2304, 2404 and 2504 (K2-1-KS-1, K2-2-KS-1 and K2-3-KS-1) –** No owner or other person shall cause or permit to be discharged into the atmosphere from any combustion installation any sulfur dioxide emissions in excess of those resulting from the following equation*: S= 2.64K, where S = the allowable emission of sulfur dioxide expressed in lbs/hr, and K* = the sum of the heat input values of the operational kilns at their rated capacities.

   The allowable SO_2 emissions of the installation is the sum of the allowable emission rates of the operational kilns at their rated capacity. For the purposes of this condition, *operational* means that the unit is capable of operating without reconstruction or modification as defined by 9 VAC 5-80-1100.
   (9 VAC 5-40-250, 9 VAC 5-40-280 B and 9 VAC 5-80-110)

8. **Emissions Limits -** Emissions from the operation of the following existing point sources (at corresponding stack exhausts) shall not exceed the limits specified below:

Source ID	Stack ID	Source Description	Allowable PM emission lbs/hr
1306 (K-1-1)	S1306 (K1-4-ST-1A)	Area #1 Rotary Kiln #1	41.4
1310 (K1-1-C-1)	S1310 (K1-1-ST-1B)	Area #1 Kiln #1 Cooler	23.55
1405 (K1-2)	S1405 (K1-4-ST-2A)	Area #1 Rotary Kiln #2	41.4
1407 (K1-2-C-1)	S1407 (K1-2-ST-2B)	Area #1 Kiln #2 Cooler	23.55
1502 (K1-3)	S1502 (K1-4-ST-3A)	Area #1 Rotary Kiln #3	63.3
1506 (K1-3-C-1)	S1506 (K1-3-ST-3B)	Area #1 Kiln #3 Cooler	35.4
2304 (K2-1-KS-1)	S2304 (K2-1-ST-1,2)	Area #2 Rotary Kiln #1	28.2
2309 (K2-1-LS-1)	S2309 (K1-17-ST-1A)	Area #2 Kiln #1 Cooler	35.4
2310 (K2-1-SKP-1)	S2309 (K1-17-ST-1A)	Skip Conveyor	

Source ID	Stack ID	Source Description	Allowable PM emission lbs/hr
2404 (K2-2-KS-1)	S2404 (K2-2-ST-1,2)	Area #2 Rotary Kiln #2	44.0
2408 (K2-2-LS-1)	S2309 (K1-17-ST-1A)	Area #2 Kiln #2 Cooler	35.4
2409 (K2-2-VF-1)	S2309 (K1-17-ST-1A)	Vibrating Feeder	
2410 (K2-2-BC-1)	S2309 (K1-17-ST-1B)	Belt Conveyor	
2411 (K2-2-SK-1)	S2309 (K1-17-ST-1A)	Skip Conveyor	
2504 (K2-3-KS-1)	S2304 (K2-1-ST-1,2)	Area #2 Rotary Kiln #3	44.1
2510 (K2-3-LS-1)	S2309 (K1-17-ST-1A)	Area #2 Kiln #3 Cooler	35.4
2511 (K2-1-VF-4,-5,-6 &-7)	S2309 (K1-17-ST-1A)	Vibrating Feeders	
2512 (K2-3-BC-4)	S2309 (K1-17-ST-1A)	Belt Conveyor	
2513 (K2-3-YB-1 & -2)	S2309 (K1-17-ST-1A)	Drag Conveyor	
2514 (K2-3-BC-5)	S2309 (K1-17-ST-1A)	Belt Conveyor	
2515 (K2-3-WB-1)	S2309 (K1-17-ST-1A)	Waste Bin Loadout	
(K1-8-CR-1)	S2000 (K1-8-ST-1)	KVS Crusher	51.3
(K1-8-SN-1)	S2000 (K1-8-ST-1)	Morgensen Sizer Screen	
1702 (K1-10-BE-1)	S1704 (K1-10-ST-1)	Bucket elevator	147.45
1704 (K1-10-SN-1)	S1704 (K1-10-ST-1)	2 deck screen	
1708 (K-10-BC-1)	S1704 (K1-10-ST-1)	Belt Conveyor	
1710 (K1-10-LS-1 & -2)	S1710 (K1-10-ST-2)	Truck/ railcar load	147.45
1721 (K1-11-BE-1)	S1721 (K1-9-ST-1)	Bucket elevator	142.72
1725 (K1-11-BC-1)	S2010 (K1-9-ST-1)	Belt Conveyor	147.45
1727 (K1-11-BC-1)	S2010 (K1-9-ST-1)	Truck/ railcar loading	

Source ID	Stack ID	Source Description	Allowable PM emission lbs/hr
1730 (K1-19-SI-1)	S1730(K1-9-ST-2)	Fines bin	142.72
1807 (K1-12-HY-1)	S1807 (K1-12-ST-6)	Shaeffer Hydrator	30.5
1831 (K1-12-B-9)	S1831 (K1-12-ST-5)	West Side Product Bin	21.7
1833 (K1-12-B-10)	S1831 (K1-12-ST-5)	East Side Product Bin	
1843 (K1-12-LS-4)	S1980 (K1-12-ST-8)	Truck Loading	51.3
1844 (K1-12-B-8)	S1980 (K1-12-ST-8)	Cal-Dol fines bin	
1845 (K1-12-LS-5)	S1980 (K1-12-ST-8)	Truck Loading	
2805 (K1-18-PM-1)	S2820 (K1-18-ST-4)	Pug Mill	12.0
2806 (K1-18-H-2)	S2820 (K1-18-ST-4)	Kritzer Hydrator	
2811 (K1-18-BEL-2)	S2811 (K1-18-ST-2)	Bucket elevator	19.2
2815 K1-18-HM-1)	S2811 (K1-18-ST-2)	Hammermill	
2812 (K1-18-SBI-2)	S2840 (K1-18-ST-3)	Surge Bin	51.3
2814 (K1-18-RF-2)	S2840 (K1-18-ST-3)	Rotary Feeder	
2824 (K1-18-LS-1)	S2840 (K1-18-ST-3)	Loading Spout	
2825 (K1-18-TB-1)	S2840 (K1-18-ST-3)	Tube Baggers	
2830 (K1-18-WBI-1)	S2840 (K1-18-ST-3)	Waste Bin	
2820 (K1-18-SC-5)	S2830 (K1-18-ST-1)	Screw Conveyor	44.6
2821 (K1-18-LBI-1)	S2830 (K1-18-ST-1)	Loading Bin #1	
2822 (K1-18-LBI-2)	S2830 (K1-18-ST-1)	Loading Bin #2	
1955 (K1-14-RM-1)	S1955 (K1-14-ST-1)	Mill #1	10.4
1960 (K1-14-RM-2)	S1960 (K1-14-ST-2)	Mill #2	10.4
1965 (K1-14-RM-3)	S1965 (K1-14-ST-3)	Mill #3	10.4

Source ID	Stack ID	Source Description	Allowable PM emission lbs/hr
1970 (K1-14-B-4)	S1970 (K1-14-ST-4)	Storage Bin	44.6

(9 VAC 5-40-260, 9 VAC 5-40-280, and 9 VAC 5-80-110)

B. Monitoring

1. **Fabric Filters:** Each fabric filter shall be equipped with a device to continuously measure the differential pressure drop across the fabric filter. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times when the baghouse is operating.
(9 VAC 5-80-110)

2. **Scrubbers:** Each scrubber shall be equipped with a flow meter and a device to continuously measure the differential pressure through the scrubber. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times when the scrubber is operating.
(9 VAC 5-80-110)

3. **Coal/Coke Sulfur Content:** A sample of the coal and coke blend delivered to the kiln burner(s) shall be collected at least once per week and composited for a monthly analysis. The composite shall be analyzed for percent (%) sulfur by weight and heat input (BTU/lb) by Area. The analyses shall meet the requirements of ASTM Methods D3177 or D4239 (sulfur content), ASTM Method D3286 or D5865 (heating value) or a DEQ approved equivalent method. The approved procedure for collecting the samples shall list all pertinent information regarding sample size and number, where sample is taken, etc.
(9 VAC 5-80-110)

C. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, West Central Regional Office.

   a. Annual throughput of each type of kiln fuel per kiln, including start-up fuels, calculated monthly as the sum of each consecutive twelve (12) month period.

   b. Sulfur content and heat input value of coal/coke used in the kilns, if compliance with Sulfur Dioxide limitations as contained in Condition III.A.7. of this permit will be determined as prescribed in Condition III.B.3. of this permit.

   c. Annual throughput of crushed stone in each Area, calculated monthly as the sum of each consecutive twelve (12) month period.

d. Annual production of lime from the kiln systems, calculated monthly as the sum of each consecutive twelve (12) month period.

e. Monitoring device records for each baghouse and scrubber.

f. Monthly hours of operation of each kiln.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-80-110)

IV Process Equipment Requirements – New/modified sources *

Area 2 Crushing & Screening (Unit Number Series 2100 or K2-5)

- #2103 - one 500 ton per hour primary jaw crusher (ID #K2-5-CR-1) (40 CFR 60 Subpart OOO)
- #2117 - one 36" conveyor (ID #K2-5-BC-2A) with an hourly capacity 250 tons (40 CFR 60 Subpart OOO)
- #2102 - one 320 ton per hour vibrating feeder (ID #K2-5-VF-1)
- # 2104 - one 750 ton per hour 36" conveyor (ID #K2-5-BC-1) (40 CFR 60 Subpart OOO)

Area 2 Charging System (Unit Number Series 2200 or K2-6)

- #6-BC-4 - one 30’ x 50’ multipurpose belt conveyor (K1-20-BC-1), (40 CFR 60 Subpart OOO and Y)

Area 1 Kiln Ash, other waste product handling (Unit Number Series 1300, 1400 and 1500 or K1-1, K1-2, and K1-3)

- #1513/1514 - One 350 ton silo (K1-4-B350) / loadout system (K1-4-LS-1) to load kiln dust

Area 1 Lime Handling Upgrade for Silos 1-5 (Unit Number Series 1600 or K1-8)

- 18” belt conveyor with belt tripper (# K1-8-BC-5) rated at 50 tons/hr
- 16” screwline (# K1-8-SC-7) rated at 50 tons/hr
- 16” screwline (# K1-8-SC-8) rated at 50 tons/hr
- 36” x 36” double roll crusher (# K1-8-CR-1) rated at 50 tons/hr
- Screen (# K1-8-SN-1) rated at 62 tons/hr

Area 1 Hydrate Production and Loadout (Unit Number Series 1800 or K1-12)

- #1806A - Unit # K1-12-WB-1 and K1-12-SC-3 - Single paddle mixing screw and weigh feeder (15 tons per hour);
- #1821 - Unit # K1-12-HM-1 - Hammermill #1 (Raymond Mill No 3 Automatic Pulverizer) (6 tons/hr);
- #1824 - Unit # K1-12-HM-2,-3 - Hammermills #2 & #3 Raymond Mill No 3 Automatic Pulverizers) (6 tons/hr each);
- #1826 - Unit # K1-12-HM-4 - Hammermill #4 (Raymond Mill No 3 Automatic Pulverizer) (6 tons/hr);
- #1835 - Unit # K1-12-LS-1 - Primary Loadout modified to load 25 tons in 15 minutes.

Area 2 Hydrate Production and Loadout (Unit Number Series 2800 or K1-18)

- #2850 - KVS hydrator (K1-18-HY-1) with capacity of 15 tons per hour.
- #2850 - A heated baghouse to replace the wet fan scrubber on the KVS hydrator (K1-18-HY-1)
- #2851 - bucket elevator (K1-18-BEL-3) with capacity of 15 tons per hour.
- #2852 - air separator (K1-18-SEP-1) with capacity of 15 tons per hour.
- #2853 - conveyor from separator (K1-18-SC-10) with capacity of 5 tons/ hour.
- #2854 - pneumatic conveyor (K1-18-BLW-2) with capacity of 12 tons per hour.
- #2861 - surge bin (K1-18-SBI-3) with capacity of 15 tons per hour.
- #2862 - scale feeder (K1-18-SCF-2) with capacity of 15 tons per hour.
- #2850 & #2851 - two (2) 24" diameter x 12' long mixing screws between the KVS hydrator (K1-18-HY-1) and bucket elevator (K1-18-BEL-3)
- #2851 & #2852 - screw conveyor from bucket elevator (K1-18-BEL-3) to air separator (K1-18-SEP-1)

Area 1 Coal / Coke Handling (Unit Number Series 1900 – 1949 / K1-7 and K1-3)

- #1922A & #1922B - Area 1 Coal Handling - Raymond Mills (Units #K1-7-CM-1 and -2)
- #1919A, #1921A & #1932A - Area 1 Coal Handling - weigh belt feeders (Units #K1-7-WB-1, –2, and K1-3-WB-2) (40 CFR 60 Subpart Y)
- #1922C & #1922D - Area 1 Coal Preparation and Handling Duct Burners (Units # K1-7-DB-1 & -2)

Plantwide:

- #RUL - Railcar unloading system (K1-17-BDC-1).

***** *The size/rated capacity given is for informational purposes only, and is not an applicable requirement. In most cases, these values are "estimated" and not based on detailed engineering calculations.*

A. Limitations

1. **Fugitive Dust Emission Controls** – Fugitive dust and fugitive emission controls shall include the following, or equivalent, as a minimum:

   a. Reasonable precautions shall be taken in order to prevent fugitive dust emissions from material handling, conveyors, load-outs, and traffic areas.

   b. Reasonable precautions shall be taken to prevent deposition of dirt on public roads and subsequent dust emissions. Dirt, product, or raw material spilled or tracked onto paved surfaces shall be promptly removed to prevent particulate matter from becoming airborne.

   (9 VAC 5-50-90, C. 3 of June 12, 2002 NSR modification permit (amended February 21, 2003) and C. 4 of February 3, 2003 modification permit)

2. **Emission Controls** – Fugitive particulate emissions from the following sources shall be controlled by enclosure of belts and transfer points, wet suppression, or vented to a baghouse. The controls shall be provided with adequate access for inspection and shall be in operation when this equipment is operating.

- Area 1 Hydrate Production mixing screw & weigh feeder - Unit 1806A (K1-12-WB-1 & K1-12-SC-3)
- Area 1 Hydrate Production Hammermills 1 through 4 and associated bins - Units #1820 – 1826 (K1-12-HM-1, -2, -3,-4)
- Area 1 Hydrate Production primary loadout - Unit #1835 (K1-12-LS-1)
- Area 1 Hydrate Production secondary loadout - Unit #1836
- Area 1 Hydrate Production automatic bagger - Unit #1848
- Area 2 Hydrate Production conveyors - Units #2853 (K1-18-SC-10) & #2854 (K1-18-BLW-2)
- Area 2 Hydrate Production elevator - Unit #2851 (K1-18-BEL-3)
- Area 2 Hydrate Production scale feeder - Unit #2862 (K1-18-SCF-2)
- Area 1 Coal/Coke Handling - Raymond Mills - Units #1922A & 1922B (K1-7-BM-1 & -2)
- Area 1 Coal/Coke Handling - weigh belt feeders - Units #1919A, 1921A & 1932A (K1-7-WB-1 & -2, K1-3-WB-2)
- Railcar unloading system - RUL (K1-17-BDC-1): conveyors and loadout spouts
- one 30’ x 50’ Multipurpose portable belt conveyor - 6-BC-4 (K1-20-BC-1) (40 CFR 60 Subpart OOO & Y)

(9 VAC 5-50-260, 9 VAC 5-80-10H and C. 4 of June 12, 2002 NSR modification permit (amended February 21, 2003))

3. **Emission Controls** – Particulate emissions from the following point sources shall be controlled by one or more fabric filter baghouse dust collection systems. The baghouse(s) shall be provided with adequate access for inspection and shall be in operation when this equipment is operating.

- Area 1 Kiln Dust Bin - Unit #1513 (K1-4-B350)
- Area 1 Kiln Dust Load out - Unit #1514 (K1-4-LS-1)
- Area 1 Lime Handling – Silos 1-5 - 36” x 36” double roll crusher (# K1-8-CR-1)
- Area 1 Lime Handling – Silos 1-5 - Screen (# K1-8-SN-1)
- Area 1 Hydrate Production Hammermills 1 through 4 and associated bins - Units #1820 - 1826 (K1-12-HM-1, -2, -3,-4)
- Area 1 Hydrate Production primary loadout - Unit #1835 (K1-12-LS-1)
- Area 1 Hydrate Production secondary loadout (Unit #1836)
- Area 1 Hydrate Production automatic bagger (Unit #1848)
- Area 2 Hydrate Production surge bin - Unit #2812 (K1-18-SBI-2)
- Area 2 Hydrate Production Raymond Mill - Unit #2815 (K1-18-HM-1)
- Area 2 Hydrate Production loading bins - Units #2821 and #2822 (K1-18-LBI-1 & -2)
- Railcar unloading system – RUL (K1-17-BDC-1)

(9 VAC 5-80-10 F, 9 VAC 5-50-260, C. 5 of June 12, 2002 NSR modification permit and C. 3 of February 3, 2003 NSR modification permit (amended February 21, 2003))

4. **Emission Controls** – Particulate emissions from the Area 2 KVS Hydrator - Unit #2850 (K1-18-HY-1) shall be controlled by a heated baghouse. The heated baghouse shall be provided with adequate access for inspection and shall be in operation when the KVS Hydrator - Unit #2850 (K1-18-HY-1) is operating.
(9 VAC 5-80-10 F, 9 VAC 5-50-260 and C. 6 of June 12, 2002 NSR modification permit (amended February 21, 2003))

5. **Emission Controls** – Fugitive dust emissions from trucks or railcars in transit from the Area 1 Kiln Dust Handling/Silo Loadout System - Units #1513/1514 (K1-4-B350 & K1-4-LS-1) must be minimized by the use of enclosed tankers, trucks, railcars, or equivalent as approved by DEQ. (9 VAC 5-80-10 F, 9 VAC 5-50-260 and C. 7 of June 12, 2002 NSR permit (amended February 21, 2003))

6. **Emission Controls** – Collected particulate matter shall be "sold", recycled to the process or disposed of in a manner that minimizes the introductions of contaminants to the ambient air. This condition applies to the following equipment:

   - Area 2 KVS Hydrator - Unit #2850 (K1-18-HY-1)
   - Railcar unloading system – RUL (K1-17-BDC-1)

   (9 VAC 5-50-260, 9 VAC 5-80-10 and C. 8 of June 12, 2002 NSR permit (amended February 21, 2003))

7. **Production /Throughput** - The following table indicates production and/or throughput limits for new and modified sources at the facility:

Unit ID	Unit Description	Limit Value	Limit Units	Limit Material
#2103 (K2-5-CR-1)	Area 2 primary jaw crusher	900,000	Tons/yr	Crushed stone
#6-BC-4 (K1-20-BC-1)	Area 2 multipurpose portable belt conveyor	50,000	Tons/yr	Small crushed stone or coal/coke
#1513/#1514 (K1-4-B350, K1-4-LS-1)	Area 1 350 ton Kiln Dust Bin and Loadout	65,700	Tons/yr	Kiln dust
#K1-8-SN-1	Area 1 Lime Handling – Silos 1-5 Screen	436,000	Tons/yr	Lime
#1821, #1824 and #1826, (K1-12-HM-1-4) #1835 (K1-12-LS-1) #1836 #1848	Area 1 Hydrate Production Hammermills, primary loadout, secondary loadout, and bagging operation	107,000	Tons/yr	Hydrated lime
#1919A, #1921A (K1-7-WB-1, -2)	Area 1 Coal/Coke Handling Weigh Belt Feeders	70,080 each	Tons/yr	Coal/Coke

Unit ID	Unit Description	Limit Value	Limit Units	Limit Material
#1932A (K1-3-WB-2)	Area 1 #3 Coal/Coke Handling Weigh Belt Feeder	87,600	Tons/yr	Coal/Coke
#1922A, #1922B (K1-7-CM 1 & -2)	Area 1 Coal/Coke Handling Raymond Bowl Mills	39,420 each	Tons/yr	Coal/Coke
#2850 (K1-18-HY-1)	Area 2 Hydrate Production – KVS Hydrator	131,400	Tons/yr	Hydrated lime
RUL (K1-17-BDC-1)	Railcar Unloading System	80,000	Tons/yr	Lime

These limits shall be calculated monthly as the sum of each consecutive twelve (12) month period. (9 VAC 5-170-160, 9 VAC 5-80-1180, C. 11 of June 12, 2002 NSR Modification permit (amended February 21, 2003) and C. 7 of February 3, 2003 NSR Modification permit)

8. **Fuel** - The approved fuels for the Area 1 Coal/Coke Handling Duct Burners - Units # 1922C and 1922D (K1-7-DB-1, -2) are distillate oil and residual oil. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-10 and C. 12 of June 12, 2002 NSR permit (amended February 21, 2003))

9. **Fuel Specifications** - The distillate oil and/or residual oil used in the Area 1 Coal/Coke Handling Duct Burners - Units # 1922C and 1922D (K1-7-DB-1, -2) shall meet the specifications below:

DISTILLATE OIL which meets the ASTM D396 specification for numbers 1 or 2 fuel oil:
Maximum sulfur content per shipment: 0.5%

RESIDUAL OIL which meets the ASTM D396 specifications for numbers 4, 5, or 6 fuel oil:
Maximum sulfur content per shipment: 2%

(9 VAC 5-80-10 and C. 13 of June 12, 2002 NSR permit (amended February 21, 2003))

10. **Fuel Certification** - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil and/or residual oil used in the Area 1 Coal/Coke Handling Duct Burners - Units # 1922C and 1922D (K1-7-DB-1, -2). Each fuel supplier certification shall include the following:

a. The name of the fuel supplier;

b. The date on which the distillate oil and/or residual oil was received;

c. The volume of distillate oil and/or residual oil delivered in the shipment;

d. A statement that the distillate oil and/or residual oil complies with the American Society for Testing and Materials specifications for numbers 1, 2, 4, 5, or 6 fuel oil;

e. The sulfur content of the distillate oil and/or residual oil;

f. Documentation of sampling of the oil indicating the location of the residual oil when the sample was drawn; and

g. The method used to determine the sulfur content of the residual oil.

(9 VAC 5-170-160 and C. 14 of June 12, 2002 NSR permit (amended February 21, 2003))

11. **Emission Limits** - Emissions from the operation of the following units shall not exceed the limits specified below:

Emission Unit ID#	Emission Unit Description	Baghouse ID	Pollutant	Emission Limit	Emission Limit lbs/hr	Emission Limit Tons/yr
1513/1514 (K1-4-350, K1-4-LS-1)	Area 1 350 ton Kiln Dust Bin and Loadout	1514BH (K1-4-BH350)	PM	0.01 gr/dscf	0.2	0.9
1513/1514 (K1-4-350, K1-4-LS-1)	Area 1 350 ton Kiln Dust Bin and Loadout	1514BH (K1-4-BH350)	PM_{10}	0.01 gr/dscf	0.2	0.9
K1-8-SN-1/ K1-8-CR-1	Area 1 Lime Handling Screen & Crusher– Silos 1-5 BH	K1-8-BH-1	PM	0.015 gr/acfm	3.21	14.08
K1-8-SN-1/ K1-8-CR-1	Area 1 Lime Handling Screen & Crusher– Silos 1-5 BH	K1-8-BH-1	PM_{10}		1.61	7.04
K1-8-BC-5, K1-8-SC-7 K1-8-SC-8	Area 1 Lime Handling – Silos 1-5 Transfer Points	N/A	PM		22.00	13.19
K1-8-BC-5, K1-8-SC-7 K1-8-SC-8	Area 1 Lime Handling – Silos 1-5 Transfer Points	N/A	PM_{10}		11.00	6.59
1821 (K1-12-HM-1)	Area 1 Hydrate - Hammermill #1	1821BH (K1-12-BH-1)	PM	0.02 gr/acf	0.31	1.35
1821 (K1-12-HM-1)	Area 1 Hydrate - Hammermill #1	1821BH (K1-12-BH-1)	PM_{10}		0.26	1.14
1824 (K1-12-HM-2,-3)	Area 1 Hydrate - Hammermill #2 & 3	1824BH (K1-12-BH-2, -3)	PM	0.02 gr/acf	1.89	8.26
1824 (K1-12-HM-2,-3)	Area 1 Hydrate- Hammermill #2 & 3	1824BH (K1-12-BH-2, -3)	PM_{10}		1.58	6.94
1826 (K1-12-HM-4)	Area 1 Hydrate- Hammermill #4	1826BH (K1-12-BH-4)	PM	0.02 gr/acf	0.31	1.35

New / Modified Source Emission Limits – continued

Emission Unit ID#	Emission Unit Description	Baghouse ID	Pollutant	Emission Limit	Emission Limit lbs/hr	Emission Limit Tons/yr
1826 (K1-12-HM-4)	Area 1 Hydrate-Hammermill #4	1826BH (K1-12-BH-4)	PM_{10}		0.26	1.14
1835 (K1-12-LS-1)	Area 1 Hydrate-Primary Loadout	1835BH (K1-12-BH-8)	PM	0.02 gr/acf	0.21	0.90
1835 (K1-12-LS-1)	Area 1 Hydrate-Primary Loadout	1835BH (K1-12-BH-8)	PM_{10}		0.17	0.76
1836 (K1-12-LS-2)	Area 1 Hydrate-Secondary Loadout	1835BH (K1-12-BH-8)	PM	0.02 gr/acf	0.43	1.88
1836 (K1-12-LS-2)	Area 1 Hydrate-Secondary Loadout	1835BH (K1-12-BH-8)	PM_{10}		0.36	1.58
1848 (K1-13-BAG-1)	Area 1 Hydrate-Bagger	1831BH E/W (K1-12-BH-5)	PM	0.02 gr/acf	0.39	1.71
1848 (K1-13-BAG-1)	Area 1 Hydrate-Bagger	1831 BH E/W (K-12-BH-5)	PM_{10}		0.33	1.44
1922C (K1-7-DB-1)	Area 1 Coal/Coke Handling Duct Burner # 1	N/A	PM			0.65
1922C (K1-7-DB-1)	Area 1 Coal/Coke Handling Duct Burner # 1	N/A	PM_{10}			0.65
1922C (K1-7-DB-1)	Area 1 Coal/Coke Handling Duct Burner # 1	N/A	SO2			18.23
1922C (K1-7-DB-1)	Area 1 Coal/Coke Handling Duct Burner #1	N/A	NOx			3.18
1922C (K1-7-DB-1)	Area 1 Coal/Coke Handling Duct Burner #1	N/A	VOC			0.87
1922D (K1-7-DB-2)	Area 1 Coal/Coke Handling Duct Burner #2	N/A	PM			0.65
1922D (K1-7-DB-2)	Area 1 Coal/Coke Handling Duct Burner #2	N/A	PM_{10}			0.65
1922D (K1-7-DB-2)	Area 1 Coal/Coke Handling Duct Burner #2	N/A	SO2			18.23
1922D (K1-7-DB-2)	Area 1 Coal/Coke Handling Duct Burner #2	N/A	NOx			3.18
1922D (K1-7-DB-2)	Area 1 Coal/Coke Handling Duct Burner #2	N/A	VOC			0.87
2100 (K2-5)	Area 2 Screening	N/A	PM		11.25	10.13
2100 (K2-5)	Area 2 Screening	N/A	PM_{10}		1.125	1.1
2850 (K1-18-HY-1)	Area 2 – KVS Lime Hydrator	2850BH (K1-18-BDC-2)	PM		0.9	3.9
2850 (K1-18-HY-1)	Area 2 – KVS Lime Hydrator	2850BH (K1-18-BDC-2)	PM_{10}		0.9	3.9

New / Modified Source Emission Limits – continued

Emission Unit ID#	Emission Unit Description	Baghouse ID	Pollutant	Emission Limit	Emission Limit lbs/hr	Emission Limit Tons/yr
2812, 2815, 2824 (K1-18-SBI-2, K1-18-HM-1, K1-18-LS-1)	Area 2 Hydrate - Surge Bin, Raymond Mill, loadout Spout	2840BH K1-18-BDC-2 & -3)	PM	0.02 gr/dscf	0.86	3.76
2812, 2815, 2824 (K1-18-SBI-2, K1-18-HM-1, K1-18-LS-1)	Area 2 Hydrate - Surge Bin, Raymond Mill, Loadout Spout	2840BH K1-18-BDC-2 & -3)	PM_{10}		0.86	3.76
2821/2822 (K1-18-LBI-1,-2)	Area 2 Hydrate – Loadout Bins	2830BH (K1-18-BVI)	PM	0.02 gr/dscf	0.27	1.17
2821/2822 (K1-18-LBI-1,-2)	Area 2 Hydrate – Loadout Bins	2830BH (K1-18-BVI)	PM_{10}		0.27	1.17

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers IV. A. 2, 3, 4, 5, 6, 7, 8, 9 and 10.
(9 VAC 5-50-260, 9 VAC 5-50-410, C. 15 of June 12, 2002 NSR Modification permit (amended February 21, 2003) and C. 8 and 9 of February 3, 2003 NSR Modification permit)

12. **Visible Emission Limit (5%)** - Visible emissions from the following processes shall not exceed five percent (5%) opacity except during one six-minute period in any one hour in which visible emissions shall not exceed ten percent (10%) opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A).

- Portable railcar unloading system – RUL (K1-17-BDC-1)
- Area 1 350 ton Kiln Dust Bin - Unit #1513 (K1-4-350)
- Area 1 Kiln Dust Load out - Unit #1514 (K1-4-LS-1)

(9 VAC 5-50-80, 9 VAC 5-50-260 & C. 16 of June 12, 2002 NSR permit (amd. February 21, 2003))

13. **Visible Emission Limit (10%)** - Visible emissions from the following processes shall not exceed ten percent (10%) opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A).

- Area 1 Lime Handling Baghouse (#K1-8-BH-1) which controls screen #K1-8-SN-1 and double roll crusher #K1-8-CR-1
- Area 1 Hydrate Production Hammermills 1 through 4 - Units #1821, #1824 & #1826 (K1-12-HM-1, -2, -3,-4)
- Area 1 Hydrate Production primary loadout - Unit #1835 (K1-12-LS-1)

- Area 1 Hydrate Production secondary loadout (Unit #1836)
- Area 1 Hydrate Production bagging machine (Unit #1848)
- Area 2 Crushing & Screening Conveyor - Unit #2104 (ID #K2-5-BC-1) (40 CFR 60 Subpart OOO)
- Area 2 Crushing & Screening Conveyor - Unit #2104 (ID #K2-5-BC-2A) (40 CFR 60 Subpart OOO)
- Area 2 Hydrate Production KVS hydrator - Unit # 2850 (K1-18-HY-1)
- Area 2 Hydrate Production surge bin - Unit #2812 (K1-18-SBI-2)
- Area 2 Hydrate Production Raymond Mill - Unit #2815 (K1-18-HM-1)
- Area 2 Hydrate Production loading bins - Units #2821 & #2822 (K1-18-LBI-1 and –2)
- 30’ x 50’ Multipurpose portable belt conveyor - 6-BC-4 (K1-20-BC-1), (40 CFR 60 Subpart OOO & Y)

(9 VAC 5-50-80, 9 VAC 5-50-260, C. 17 of June 12, 2002 NSR Modification permit (amended February 21, 2003) and C. 11 of February 3, 2003 NSR Modification permit)

14. **Visible Emission Limit (15%)** - Visible emissions from the following processes shall not exceed fifteen percent (15%) opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A).
    - Area 1 Hydrate Production – single paddle mixing screw and weigh feeder Unit 1806A (K1-12-WB-1 & K1-12-SC-3)
    - Area 2 Crushing & Screening – primary crushing - Unit #2103 (ID #K2-5-CR-1) (NSPS Subpart OOO)
    - Area 2 Hydrate Production air separator - Unit #2852 (K1-18-SEP-1)
    - Area 2 Hydrate Production elevators - Units #2802 & #2851 (K1-18-BEL-1 & -3)
    - Area 2 Hydrate Production conveyors - Units #2853 (K1-18-SC-10) & #2854 (K1-18-BLW-2)
    - Area 2 Hydrate Production surge bin (Unit #2861)
    - Area 2 Hydrate Production scale feeder #2862 (K1-18-SCF-2)

    (9 VAC 5-50-80, 9 VAC 5-50-260, 9 VAC 5-50-410 and C. 18 of June 12, 2002 NSR permit (amended February 21, 2003))

15. **Visible Emission Limit (20%)** - Visible emissions from the transfer points of the following enclosed processes shall not exceed twenty percent (20%) opacity, except for one six-minute period in any one hour of not more than thirty percent (30%) opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A).

    - Area 1 Lime Handling for Silos 1-5 (Units#K1-8-SC-1, K1-8-BC-2, K1-8-BC-5, KI-8-SC-7 and K1-8-SC-8)
    - Area 1 Coal/Coke Handling - Raymond Mills - Unit #1922A & 1922B (K1-7-CM 1 & -2)
    - Area 1 Coal/Coke Handling - Weigh Belt Feeders - Unit # 1919A, 1921A & 1932A (K1-7-WB-1, -2) (K1-3-WB-2)
    - one 500 ton per hour vibrating feeder - ID #2102 (ID #K2-5-VF-1)

    (9 VAC 5-50-80, 9 VAC 5-50-260, 9 VAC 5-50-410, C. 19 of June 12, 2002 NSR Modification permit (amended February 21, 2003) and C. 10 of February 3, 2003 NSR Modification permit)

16. **Requirements by Reference** - Except where this permit is more restrictive than the applicable requirement, the equipment subject to the requirements of the applicable New Source Performance Standards (NSPS) as described in Section IV shall be operated in compliance with the requirements of 40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Areas, and 40 CFR 60, Subpart Y, Standards of Performance for Coal Preparation Areas.
(9 VAC 5-50-400, 9 VAC 5-50-410 and C. 20 of June 12, 2002 NSR permit (amended February 21, 2003))

B. Monitoring and Recordkeeping

1. **Monitoring Devices** - The baghouse(s) controlling the particulate emissions from the sources listed in Conditions IV. A. 2, 3, and 4 of this permit shall be provided with a device to continuously measure the differential pressure drop across the fabric filter. The baghouse which controls the Area 2 KVS hydrator - Unit #2850 (K1-18-H-1) shall also be equipped with a device to continuously measure temperature. The monitoring device(s) shall be installed, maintained and operated in accordance with approved procedures, which shall include, as a minimum, the manufacturer's written requirements or recommendations. The monitoring device(s) shall be provided with adequate access for inspection and shall be in operation when the baghouse(s) is operating. The device(s) shall be installed in an accessible location and shall be maintained by the permittee so as to ensure proper working order at all times.
(9 VAC 5-80-10 H, 9 VAC 5-80-1180, 9 VAC 5-50-20, 9 VAC 5-50-260, C. 9 of June 12, 2002 NSR Modification permit (amended February 21, 2003) and C. 5 of February 3, 2003 NSR Modification permit)

2. **Monitoring Device Observation** - The device(s) used to measure the temperature and differential pressure across the fabric filter(s) as indicated in Condition IV. B. 1. of this permit shall be observed by the permittee with a frequency sufficient to ensure good performance of the baghouse(s). The permittee shall keep a log of the observations from the baghouse monitoring devices.
(9 VAC 5-50-50 F, 9 VAC 5-50-50 H, C. 10 of June 12, 2002 NSR Modification permit (amended February 21, 2003) and C. 6 of February 3, 2003 NSR Modification permit)

3. **On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, West Central Regional Office. These records shall include, but are not limited to:

   a. Annual throughput of material through the Area 1 350 ton Kiln Dust Bin and Loadout - Units #1513 & #1514 (K1-4-350 & K1-4-LS-1),calculated monthly as the sum of each consecutive 12 month period;

   b. Annual throughput of material unloaded by the railcar unloading system - Unit # RUL (K1-17-BDC-1), calculated monthly as the sum of each consecutive twelve (12) month period;

   c. Annual throughput of material through the Area 2 - 500 ton per hour primary jaw crusher - Unit #2103 (ID #K2-5-CR-1), calculated monthly as the sum of each consecutive 12 month period;

d. Annual throughput of material through the Area 2 KVS hydrator - Unit #2850 (K1-18-H-1), calculated monthly as the sum of each consecutive 12 month period;

e. Annual throughput of material through the Area 2 Hydrate Production and Loadout loadout station - Units #2820/2822 (K1-18-LBI-1 and –2), calculated monthly as the sum of each consecutive 12 month period;

f. The daily record of the heated baghouse temperature and pressure drop, recorded while the baghouse controlling the KVS hydrator - Unit #2850 (K1-18-H-1), is operating;

g. Annual production of the hydrated lime for Area 1, calculated monthly as the sum of each consecutive 12 month period;

h. Annual throughput of lime through the screen (#K1-8-SN-1), in tons, calculated monthly as the sum of each consecutive 12-month period.

i. All fuel supplier certifications;

j. Results of all stack tests, visible emission evaluations and performance evaluations required by this permit;

k. Operation and control device monitoring records for each fabric filter baghouse required by this permit; and

l. Scheduled and unscheduled maintenance, and operator training for new/modified equipment as listed in Condition IV. D. 5 a. and d.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-50-50, C. 21 of June 12, 2002 NSR permit (amended February 21, 2003) and C. 13 of February 3, 2003 NSR modification permit)

C. Testing

1. **Testing/Monitoring Ports** - The permitted facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing stack or duct that is free from cyclonic flow. Test ports shall be provided when requested in accordance with the applicable performance specification (reference 40 CFR Part 60, Appendix B).
(9 VAC 5-50-30 F, C. 22 of June 12, 2002 NSR permit (amended February 21, 2003) and C. 12 of February 3, 2003 NSR Modification permit)

2. **Stack Tests: Continuing Compliance** – Upon request by the DEQ, the permittee shall conduct performance tests in order to demonstrate compliance with the emission limits and/or control efficiency requirements contained in this permit. The details of the tests shall be arranged with the Air Compliance Manager or Director, West Central Regional Office.
(9 VAC 5-50-30 G, C. 24 of June 12, 2002 NSR permit (amended February 21, 2003) and C. 15 of February 3, 2003 NSR modification permit)

3. **Visible Emissions Evaluation –** Visible Emission Evaluations (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9 shall be conducted on the Area 1 Coal Handling Weigh Belt Feeders - Units #1919A and 1921A to determine compliance with the opacity limits contained in Condition IV. A. 15. Each test shall consist of 30 sets of 24 consecutive observations (at 15 second intervals) to yield a six-minute average. The details of the test are to be arranged with the Air Compliance Manager or Director, West Central Regional Office. The evaluation shall be performed and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of the permitted facility. Should conditions prevent concurrent opacity observations, the Air Compliance Manager or Director, West Central Regional Office shall be notified in writing, within seven days, and visible emissions testing shall be rescheduled within 30 days. Rescheduled testing shall be conducted under the same conditions (as possible) as the initial performance tests. Two copies of the test results shall be submitted to the Air Compliance Manager, West Central Regional Office within 45 days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-50-30, 9 VAC 5-80-10 J, 9 VAC 5-50-410 and C. 23 of June 12, 2002 NSR permit (amended February 21, 2003))

4. **Visible Emissions Evaluations: Continuing Compliance** – Upon request by the DEQ, the permittee shall conduct additional visible emission evaluations to demonstrate compliance with the visible emission limits contained in this permit. The details of the tests shall be arranged with the Air Compliance Manager or Director, West Central Regional Office.
(9 VAC 5-50-30 G, C. 25 of June 12, 2002 NSR permit (amended February 21, 2003) and C. 16 of February 3, 2003 modification permit)

D. Reporting/General

1. **Initial Notifications** - The permittee shall furnish written notification to the Director, West Central Regional Office:

   a. The actual date on which installation of the Area 1 Coal Preparation and Handling equipment (Raymond Bowl Mills - Units #1922A and #1922B, Weigh Belt Feeders - Units #1919A, 1921A, and Duct Burners - Units # 1922C and 1922D) commenced within 30 days after such date;

   b. The anticipated start-up date of the Area 1 Coal Preparation and Handling equipment (Raymond Bowl Mills - Units #1922A and #1922B, Weigh Belt Feeders - Units #1919A and 1921A, and Duct Burners - Units # 1922C and 1922D) postmarked not more than 60 days nor less than 30 days prior to such date;

   c. The actual start-up date of the Area 1 Coal Handling equipment Area 1 Coal Preparation and Handling equipment (Raymond Bowl Mills - Units #1922A and #1922B, Weigh Belt Feeders - Units #1919A and 1921A, and Duct Burners - Units # 1922C and 1922D) within 15 days after such date;

d. The anticipated date of visible emission tests of the Area 1 Coal Preparation and Handling equipment (Weigh Belt Feeders - Units #1919A and 1921A) postmarked at least 30 days prior to such date.

Copies of the written notification referenced in items a through d above for equipment designated as subject to NSPS are to be sent to:

Associate Director
Office of Air Enforcement (3AP10)
U.S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

(9 VAC 5-50-50 and C. 26 of June 12, 2002 NSR permit (amended February 21, 2003))

2. **Notification for Control Equipment Maintenance** - The permittee shall furnish notification to the Director, West Central Regional Office of the intention to shut down or bypass, or both, air pollution control equipment for necessary scheduled maintenance, which results in excess emissions for more than one hour, at least 24 hours prior to the shutdown. The notification shall include, but is not limited to, the following information:

a. Identification of the air pollution control equipment to be taken out of service, as well as its location, and registration number;

b. The expected length of time that the air pollution control equipment will be out of service;

c. The nature and quantity of emissions of air pollutants likely to occur during the shutdown period;

d. Measures that will be taken to minimize the length of the shutdown or to negate the effect of the outage.

(9 VAC 5-20-180 B, C. 30 of June 12, 2002 NSR permit (amended February 21, 2003) and C. 18 of February 3, 2003 NSR modification permit)

3. **Notification for Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Director, West Central Regional Office of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone or telegraph. Such notification shall be made as soon as it is practical but not later than four daytime business hours of the malfunction. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within 14 days of the occurrence. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Director, West Central Regional Office in writing.
(9 VAC 5-20-180 C, C. 31 of June 12, 2002 NSR permit (amended February 21, 2003) and C. 19 of February 3, 2003 NSR modification permit)

4. **Right of Entry** - The permittee shall allow authorized local, state and federal representatives, upon the presentation of credentials:

   a. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;

   b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;

   c. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and

   d. To sample or test at reasonable times.

   For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.
   (9 VAC 5-170-130, C. 29 of June 12, 2002 NSR permit (amended February 21, 2003) and C. 21 of February 3, 2003 NSR modification permit)

5. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.
   (9 VAC 5-20-180 I, C. 32 of June 12, 2002 NSR permit (amended February 21, 2003) and C. 22 of February 3, 2003 NSR modification permit)

6. **Maintenance/Operating Procedures** - The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and new/modified process equipment as indicated which affect such emissions:

   a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. This condition applies to the following equipment:

      - Area 1 350 ton Kiln Dust Bin - Unit #1513 (K1-4-350)
      - Area 1 Kiln Dust Load out - Unit #1514 (K1-4-LS-1)
      - Area 1 Hydrate Production mixing screw & weigh feeder - Unit 1806A (K1-12-WB-1 & K1-12-SC-3)
      - Area 1 Hydrate Production Hammermills 1 through 4 and associated bins - Units #1820 – 1826 (K1-12-HM-1, -2, -3,-4)
      - Area 1 Hydrate Production primary loadout - Unit #1835 (K1-12-LS-1)
      - Area 1 Hydrate Production secondary loadout - Unit #1836 (K1-12-LS-2)
      - Area 1 Hydrate Production bagging machine - Unit #1848 (K1-13-BAG-1)
      - Area 2 Crushing & Screening equipment - Units #2102, 2103, 2104 and 2117 (K2-5-VF-1, K2-5-CR-1, K2-5-BC-1 & K2-5-BC-2A)
      - Area 2 Hydrate Production KVS hydrator - Unit # 2850 (K1-18-H-1)
      - Area 2 Hydrate Production surge bin - Unit #2812 (K1-18-SBI-2)

- Area 2 Hydrate Production Raymond Mill - Unit #2815 (K1-18-HM-1)
- Area 2 Hydrate Production loading bins - Units #2821 & #2822 (K1-18-LBI-1 and –2)
- Area 2 Hydrate Production air separator - Unit #2852 (K1-18-SEP-1)
- Area 2 Hydrate Production elevators - Units #2802 & #2851 (K1-18-BEL-1 & -3)
- Area 2 Hydrate Production conveyors - Units #2853 (K1-18-SC-10) & #2854 (K1-18-BLW-2)
- Area 2 Hydrate Production surge bin (Unit #2861)
- Area 2 Hydrate Production scale feeder - Unit #2862 (K1-18-SCF-2)
- Portable railcar unloading system - RUL (K1-17-BDC-1)
- one 30’ x 50’ Multipurpose portable belt conveyor - 6-BC-4 (K1-20-BC-1) (40 CFR 60 Subpart OOO & Y)

b. Maintain an inventory of spare parts. This condition applies to the following equipment:

- Area 1 350 ton Kiln Dust Bin - Unit #1513 (K1-4-350)
- Area 1 Kiln Dust Load out - Unit #1514 (K1-4-LS-1)
- Area 1 Hydrate Production mixing screw & weigh feeder - Unit 1806A (K1-12-WB-1 & K1-12-SC-3)
- Area 1 Hydrate Production Hammermills 1 through 4 - Units #1821, #1824 & #1826 1826 (K1-12-HM-1, -2, -3,-4)
- Area 1 Hydrate Production primary loadout - Unit #1835 (K1-12-LS-1)
- Area 1 Hydrate Production secondary loadout (Unit #1836) (K1-12-LS-2)
- Area 1 Hydrate Production bagging machine (Unit #1848) (K1-13-BAG-1)
- Area 2 Crushing & Screening equipment - Units #2102, 2103, 2104 and 2117 (K2-5-VF-1, K2-5-CR-1, K2-5-BC-1 & K2-5-BC-2A)
- Area 2 Hydrate Production KVS hydrator - Unit # 2850 (K1-18-HY-1)
- Area 2 Hydrate Production surge bin - Unit #2812 (K1-18-SBI-2)
- Area 2 Hydrate Production Raymond Mill - Unit #2815 (K1-18-HM-1)
- Area 2 Hydrate Production loading bins - Units #2821 & #2822 (K1-18-LBI-1 and –2)
- Area 2 Hydrate Production air separator - Unit #2852 (K1-18-SEP-1)
- Area 2 Hydrate Production elevators - Units #2802 & #2851 (K1-18-BEL-1 & -3)
- Area 2 Hydrate Production conveyors - Units #2853 (K1-18-SC-10) & #2854 (K1-18-BLW-2)
- Area 2 Hydrate Production surge bin (Unit #2861)
- Area 2 Hydrate Production scale feeder - Unit #2862 (K1-18-SCF-2)
- Portable railcar unloading system - RUL (K1-17-BDC-1)
- one 30’ x 50’ Multipurpose portable belt conveyor - 6-BC-4 (K1-20-BC-1) (40 CFR 60 Subpart OOO & Y)

c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations and operating experience at the facility. This condition applies to the following equipment:

- Area 1 350 ton Kiln Dust Bin - Unit #1513 (K1-4-350)
- Area 1 Kiln Dust Load out - Unit #1514 (K1-4-LS-1)

- Area 2 Crushing & Screening equipment - Units #2102, 2103, 2104 and 2117 (K2-5-VF-1, K2-5-CR-1, K2-5-BC-1 & K2-5-BC-2A)
- Portable railcar unloading system - RUL (K1-17-BDC-1)
- one 30' x 50' Multipurpose portable belt conveyor - 6-BC-4 (K1-20-BC-1) (40 CFR 60 Subpart OOO & Y)

d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training. This condition applies to the following equipment:

- Area 1 350 ton Kiln Dust Bin - Unit #1513 (K1-4-350)
- Area 1 Kiln Dust Load out - Unit #1514 (K1-4-LS-1)
- Area 2 Crushing & Screening equipment - Units #2102, 2103, 2104 and 2117 (K2-5-VF-1, K2-5-CR-1, K2-5-BC-1 & K2-5-BC-2A)
- Portable railcar unloading system - RUL (K1-17-BDC-1)
- one 30' x 50' Multipurpose portable belt conveyor - 6-BC-4 (K1-20-BC-1) (40 CFR 60 Subpart OOO & Y)

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.
(9 VAC 5-50-20 E and C. 33 of June 12, 2002 NSR permit (amended February 21, 2003))

7. **Permit Suspension/Revocation** - This permit may be suspended or revoked if the permittee:

a. Knowingly makes material misstatements in the application for this permit or any amendments to it;

b. Fails to comply with the terms or conditions of this permit;

c. Fails to comply with any emission standards applicable to the equipment listed in Condition Section II;

d. Causes emissions from this facility which result in violations of, or interferes with the attainment and maintenance of, any ambient air quality standard;

e. Fails to operate this facility in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect on the date that the application for this permit is submitted;

f. Fails to comply with the applicable provisions of 9 VAC 5-80-10.

(9 VAC 5-80-10 K, C. 34 of June 12, 2002 NSR permit (amended February 21, 2003) and C. 24 of February 3, 2003 NSR modification permit)

8. **Change of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current permit issued to the previous owner. The new owner shall notify the Director, West Central Regional Office of the change of ownership within 30 days of the transfer.
(9 VAC 5-80-10 O, C. 35 of June 12, 2002 NSR permit (amended February 21, 2003) and C. 25 of February 23, 2003 NSR modification permit)

9. **Registration/Update** - Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the DEQ or the Board for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact. The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.1-340 through 2.1-348 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.
(9 VAC 5-20-160, 9 VAC 5-170-60, C. 36 of June 12, 2002 NSR permit (amended February 21, 2003) and C. 26 of February 3, 2003 NSR modification permit)

10. **Permit Copy** - The permittee shall keep a copy of each NSR modification permit dated on the premises of the facility to which it applies.
(9 VAC 5-170-160, C. 37 of June 12, 2002 NSR permit (amended February 21, 2003) and C. 27 of February 27, 2003 NSR modification permit)

V Facility Wide Conditions

A. Monitoring and Recordkeeping

1. **Visible Emissions:** During each week of operation, the permittee shall conduct weekly visual emission inspections during daylight hours. The visual observations shall be conducted using 40 CFR 60 Appendix A Method 22 techniques (condensed water vapor/steam is not a visible emission) for at least a brief time to only identify the presence of visible emissions, unless the unit is monitored by a 40 CFR 60 Appendix A continuous opacity monitor. Each emissions unit in the Method 22 technique observation having visible emissions shall be evaluated by conducting a 40 CFR 60 Appendix A Method 9 visible emissions evaluation (VEE) for at least six (6) minutes, unless corrective action is taken that achieves no visible emissions. 40 CFR 60 Appendix A Method 9 requires the observer to have a Method 9 certification that is current at the time of the VEE. If any of these six (6) minute VEE averages exceed the unit's opacity limitation, a VEE shall be conducted on these emissions for at least 3 six minute periods (at least 18 minutes). All visible emission observations, VEE results, and corrective actions taken shall be recorded.
(9 VAC 5-80-110E)

2. **Visible Emissions - Recordkeeping:** The permittee shall maintain a log of all visible emissions observations to identify the following: process unit, observers name and affiliation, date, observer location, weather conditions, the start and stop times of the observations, and the observation results to include the duration of any observed visible emissions. This log shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

   a. After completing the weekly visible emissions observations at a given stack or process emission point for a 6-month period without observing any visible emissions, the permittee may extend the requirement for weekly visible emissions observations at that stack or process to a schedule of once per month. The once per month observations shall be conducted in accordance with the procedures and recordkeeping requirements described above. In the event that visible emissions are observed from any given stack or process emission point, the corrective action procedures and Method 9 testing described in Condition V. A. 1 shall be immediately instituted. After correction of the opacity problem, the permittee shall resume weekly visible emissions observations at that stack or process emission point. Once weekly visible emissions observations are completed for a 6-month period without observing any visible emissions, a monthly schedule may again be instituted at that stack or process emission point.

   b. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit and to document actual emissions for calculation of emission fees. The content of and format of such records shall be arranged with the Air Compliance Manager, West Central Regional Office. These records shall include, but are not limited to, maintaining the annual throughput and/or production rates for all processes at the facility. These records shall be available on site for inspection be the DEQ and shall be current for the most recent five (5) years.

   (9 VAC 5-80-110 E)

B. Testing

1. **Testing/Ports** - The permitted facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing stack or duct that is free from cyclonic flow. Test ports shall be provided when requested in accordance with the applicable performance specification (reference 40 CFR Part 60, Appendix B).
   (9 VAC 5-40-30, 9 VAC 5-50-30 and 9 VAC 5-80-110)

2. **Test Methods** - If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

The following table is only required for those pollutants that have emission limits.

Pollutant	Test Method (40 CFR Part 60, Appendix A)
VOC	EPA Methods 18, 25, 25a
VOC	EPA Methods 24, 24a
NOx	EPA Method 7
SO2	EPA Method 6
CO	EPA Method 10
PM/PM10	EPA Methods 5, 17 / 201, 201A
Visible Emission	EPA Method 9

(9 VAC 5-80-110)

C. Reporting

1. The permit deviation and failure/malfunction reporting procedures in Conditions IX.E. and IX.F. of this permit shall be used to report any opacity excursions. In addition, two copies of the test results from any Method 9 test for determining visible emissions shall be provided to the Air Compliance Manager, West Central Regional Office of the DEQ within 30 days of conducting the test. (9 VAC 5-80-110 and 9 VAC 5-20-180)

VI Insignificant Emission Units

The insignificant emission units are presumed to be in compliance with all requirements of the Clean Air Act as may apply. Based on this presumption, no monitoring, record keeping or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

Insignificant emission units include the following:

Emission Unit No.	Emission Unit Description	Citation[1] (9 VAC_)	Pollutant Emitted (5-80-720 B.)	Rated Capacity (5-80-720 C.)
2307 / K2-1-OA-1	*Area 2 - Kiln 1 Oxygen Analyzer*	*9 VAC 5-80-720 B*	*PM, PM_{10}*	*negligible*
2406 / K2-2-OA-1	*Area 2 - Kiln 2 Oxygen Analyzer*	*9 VAC 5-80-720 B*	*PM, PM_{10}*	*negligible*
2506 / K2-3-OA-1	*Area 2 - Kiln 3 Oxygen Analyzer*	*9 VAC 5-80-720 B*	*PM, PM_{10}*	*negligible*
Area 1 Diesel Tank	*10,000 gal. Diesel tank*	*9 VAC 5-80-720 A*	*VOC*	*10,000 gallons*
Area 1 Mine Diesel Tank	*3,000 gal. Diesel tank*	*9 VAC 5-80-720 A*	*VOC*	*3,000 gallons*
Area 2 Diesel Tank	*10,000 gal. Diesel tank*	*9 VAC 5-80-720 A*	*VOC*	*10,000 gallons*
Area 2 Residual Oil Tank	*3,000 gal. Residual Oil tank*	*9 VAC 5-80-720 A*	*VOC*	*3,000 gallons*
Area 1 Tanks (<1,000 gallons)	*17 Petroleum/ lubricant tanks under 1,000 gal. Capacity*	*9 VAC 5-80-720 A*	*N/A*	*<1,000 gallons (each)*
Area 2 Tanks (<1,000 gallons)	*5 Petroleum/ lubricant tanks under 1,000 gal. Capacity*	*9 VAC 5-80-720 A*	*N/A*	*<1,000 gallons (each)*
Back-up diesel engines	*5 emergency back-up diesel engines for use in case of power outage.*	*9 VAC 5-80-720 B*	*PM, PM_{10},SO_2, NOx, CO, VOC*	*Area 1, Kilns 1 & 2 – 63 HP; Kiln 3 – 121 HP; Area 2, Kilns 2 & 3 – 55 HP*
Back-up gas engine	*Emergency back-up engine for use in case of power outage.*	*9 VAC 5-80-720 B*	*PM, PM_{10},SO_2, NOx, CO, VOC*	*Area 2, Kiln 1 – 40 HP*
Parts Cleaner	*Solvent Degreaser Stations*	***9 VAC 5-80-720 A***	*VOC, HAPs*	*1 located in Plant Maintenance Shop (Mineral Spirits) and 1 in the Underground Mine Maintnenace Shop (aqueous solution)*
Misc. welding activities	*Miscellaneous Welding*	***9 VAC 5-80-720 A***	*N/A*	*N/A*

Insignificant emission units (continued):

Emission Unit No.	Emission Unit Description	Citation[1] (9 VAC_)	Pollutant Emitted (5-80-720 B.)	Rated Capacity (5-80-720 C.)
Chemical Fume Hood	*Laboratory used for Quality Control for product testing*	*9 VAC 5-80-720 A*	*N/A*	*NA*
2899 (K1-20-PB-1)	*Porta-Batch portable lime slurry system*	***9 VAC 5-80-720 A***	*PM_{10} (Slaking Tank), NOx(engine)*	*32 tons/3 hr batch; 136 HP*
1704 A-C	*Cal-Dol Briquetting Process*	***9 VAC 5-80-720 A***	*PM_{10}*	*5 tons/hr*
2850 (K1-18-HY-1)	*Propane burned in heated baghouse for KVS hydrator*	*9 VAC 5-80-720 B*	*NOx*	*2.5 MMBtu/hr*
RUL (K1-17-BDC-1) – diesel engine	*Diesel engine to power portable railcar unloader*	*9 VAC 5-80-720 B*	*NOx*	*40 HP*

[1] The citation criteria for insignificant activities are as follows:
9 VAC 5-80-720 A - Listed Insignificant Activity, Not Included in Permit Application
9 VAC 5-80-720 B - Insignificant due to emission levels
9 VAC 5-80-720 C - Insignificant due to size or production rate

VII Compliance Plan / Consent Orders

Chemical Lime Company is currently in compliance with all past compliance plans and consent orders; all have been satisfied.

VIII Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of applicability
40 CFR 60 Subpart HH	Standards of Performance for Lime Manufacturing Areas	NSPS not applicable to CLC because construction commenced before the applicability date of May 3, 1977. No significant modifications have taken place after this date to warrant NSPS applicability.

40 CFR 63 Subpart AAAAA	Lime Manufacturing MACT	Regulation Proposed / not yet Promulgated. CAAA Section 112 (j) may warrant compliance with MACT standards during permit term; at that time CLC will modify or amend permit accordingly.

Nothing in this permit shield shall alter the provisions of § 303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to § 114 of the federal Clean Air Act, (ii) the Board pursuant to § 10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-140)

IX General Conditions

A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless a timely and complete renewal application consistent, with 9 VAC 5-80-80, has been submitted, to the West Central Regional Office of the DEQ, by the owner, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.

2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.

4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.

5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-80 B, C and F, 9 VAC 5-80-110 D & 9 VAC 5-80-170 B)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

   a. The date, place as defined in the permit, and time of sampling or measurements.

   b. The date(s) analyses were performed.

   c. The company or entity that performed the analyses.

   d. The analytical techniques or methods used.

   e. The results of such analyses.

   f. The operating conditions existing at the time of sampling or measurement.

   (9 VAC 5-80-110 F)

2. Records of all required monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
   (9 VAC 5-80-110 F)

3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

   a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.

   b. All deviations from permit requirements. For purposes of this permit, a “deviation” means any condition determined by observation, data from any monitoring protocol or any other monitoring which is required by the permit that can be used to determine compliance. Deviations include exceedances documented by continuous emission monitoring or excursions from control performance indicators documented through periodic or compliance assurance monitoring. (9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to § 114(a)(3) and § 504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.

2. A description of the means for assessing or monitoring the compliance of the source with its emissions limitations, standards, and work practices.

3. The identification of each term or condition of the permit that is the basis of the certification.

4. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the certification period.

5. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.

6. The status of compliance with the terms and conditions of this permit for the certification period.

7. Such other facts as the permit may require to determine the compliance status of the source.

One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)
U.S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029.

(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall report to the Director, West Central Regional Office, by the next business day any deviations from permit requirements or any excess emissions, including those attributable to upset conditions as defined in this permit, the probable cause of such deviations, and any corrective actions or preventive measures taken.
(9 VAC 5-80-110 F.2)

F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions (an exceedence of a permit limit) for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours, notify the Director, West Central Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within two weeks provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, West Central Regional Office.

1. The emission units that have continuous monitors subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not subject to the two week written notification.

2. Each owner required to install a continuous monitoring system subject to 9 VAC 5-40-41 or 9 VAC 5-50-410 shall submit a written report of excess emissions (as defined in the applicable emission standard) to the board for every calendar quarter. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter and shall include the following information:

   a. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h) or 9 VAC 5-40-41 B 6, any conversion factors used, and the date and time of commencement and completion of each period of excess emissions;

   b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the source. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted;

   c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and

   d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.

3. All emission units not subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C must make written reports within two weeks of the malfunction occurrence.

(9 VAC 5-20-180 C, 9 VAC 5-40-50, and 9 VAC 5-50-50)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)

J. Permit Action for Cause

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause as specified in 9 VAC 5-80-110 L, 9 VAC 5-80-240 and 9 VAC 5-80-260. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
   (9 VAC 5-80-110 G.4)

2. Such changes that may require a permit modification and/or revisions include, but are not limited to, the following:

   a. Erection, fabrication, installation, addition, or modification of an emissions unit (which is the source, or part of it, which emits or has the potential to emit any regulated air pollutant), or of a source, where there is, or there is the potential of, a resulting emissions increase;

   b. Reconstruction or replacement of any emissions unit or components thereof such that its capital cost exceeds 50% of the cost of a whole new unit;

   c. Any change at a source which causes emission of a pollutant not previously emitted, an increase in emissions, production, throughput, hours of operation, or fuel use greater than those allowed by the permit, or by 9 VAC 5-80-11, unless such an increase is authorized by an emission cap; or any change at a source which causes an increase in emissions resulting from a reduction in control efficiency, unless such an increase is authorized by an emissions cap;

d. Any reduction of the height of a stack or of a point of emissions, or the addition of any obstruction which hinders the vertical motion of exhaust;

e. Any change at the source which affects its compliance with conditions in this permit, including conditions relating to monitoring, recordkeeping, and reporting;

f. Addition of an emissions unit which qualifies as insignificant by emissions rate (9 VAC 5-80-720 B) or by size or production rate (9 VAC 5-80-720 C);

g. Any change in insignificant activities, as defined by 9 VAC 5-80-90 D.1.a(1) and by 9 VAC 5-80-720 B and 9 VAC 5-80-720 C.

(9 VAC 5-80-110 G, 9 VAC 5-80-110 J, 9 VAC 5-80-240, and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)

L. Duty to Submit Information

1. The permittee shall furnish to the board, within a reasonable time, any information that the board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)

2. Any document (including reports) required in a permit condition to be submitted to the board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-305 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-355.
(9 VAC 5-80-110 H)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions

to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited, to the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;

2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;

4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and

5. The prompt removal of spilled or traced dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80 Article 1.

(9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.

2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.

3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.

4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

R. Reopening For Cause

The permit shall be reopened by the board if additional federal requirements become applicable to a major source with a remaining permit term of three or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

2. The permit shall be reopened if the administrator or the board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

3. The permit shall not be reopened by the board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)

2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.

2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:

   a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.

   b. The permitted facility was at the time being properly operated.

   c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.

   d. The permittee notified the board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F 2 b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.

3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any requirement applicable to the source.

4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The board may suspend, under such conditions and for such period of time as the board may prescribe, any permit for any of the grounds for revocation or termination or for any other violations of these regulations.
(9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substance subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A - F)

Y. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)

Z. Changes to Permits for Emissions Trading

No permit revision shall be required, under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)

AA. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110 except subsection N shall be included to determine compliance.

2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.

3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)

X State-Only Enforceable Requirements

Not Applicable.